### **Delineation of Waters of the United States**

6201 Horseshoe Bar Road ±63-Acre Site Placer County, California

**Prepared for**: U.S. Army Corps of Engineers

Contracted By: Tulip Asset LLC

March 27, 2014



### Table of Contents

<b>1.0 EXE</b>	CUTIVE SUMMARY	1
2.0 Intro	duction	2
	latory Background	
	ters of the United States	
3.2 The	SWANCC Decision	4
4.0 Meth	odology	6
4.1 Site	e-Specific References	6
	earch and Field Methodology	
	S Data Integration	
	lts	
	dy Area Description, Land Use	
5.1 Stu 5.1.1	Study Area LocationStudy Area Location	
5.1.2	Land Use	
5.1.3	Site History and Description	
5.2 Phy	rsical Features	
5.2.1	Soils	
5.2.2	Topography	9
5.2.3	Regional Hydrology	
5.2.4	Site-Specific Hydrology	
	getation	
5.3.1	Annual Grassland	
5.3.2	Oak Woodland	
5.3.3	Great Valley Mixed Riparian Forest	
	ssification of Waters of the United States	
5.4.1	Depressional Seasonal Wetland	
5.4.2	Riverine Seasonal Wetland	
5.4.3	Intermittent Drainage	
5.4.4 5.4.5	Perennial Drainage	
	Pond	
6.0 Conc	lusions	14
7.0 Refe	rences	15
List of Ta	ables	
Table 1 –	- Waters of the U.S.: Acreage According to Feature Classification	14
I ist of Its	anno a	
List of Fi		17
rigure 1 -	— Site and Vicinity	1/
	— Soils	
Figure 3 -	— Delineated Waters of the U.S.	19

### **List of Appendices**

Appendix A — Contact Information

Appendix B — Routine Wetland Determination Data Forms
Appendix C — Preliminary Jurisdictional Determination Form

#### 1.0 EXECUTIVE SUMMARY

This report presents the results of a delineation of the waters of the United States on the 6201 Horseshoe Bar Road site that may be subject to Federal jurisdiction and regulation under Section 404 of the Clean Water Act. A total of 1.13 acres of waters of the U.S., comprised of 0.15-acre of depressional seasonal wetlands, 0.53 acre of depressional seasonal wetland, 0.01 acre of intermittent drainage, 0.44 acre of perennial drainage, and 0.01 acre of pond were delineated on the site.

1

#### 2.0 INTRODUCTION

The purpose of this document is to present the results of a formal delineation of jurisdictional waters of the United States, including wetlands, on the  $\pm 63$ -acre 6201 Horseshoe Bar Road site. The site is located within the Town of Loomis, California in Placer County (**Figure 1**).

This report presents the results of Foothill Associates' review of available literature, aerial photographs, soil surveys (**Figure 2**), and fieldwork on the site. These results are summarized to depict jurisdictional waters of the United States following the technical guidelines provided in the 1987 *U.S. Army Corps of Engineers Wetlands Delineation Manual* and the *Arid West Regional Supplement* for identifying wetlands and distinguishing them from aquatic habitats and other nonwetlands. The jurisdictional boundaries for other waters of the United States were identified based on the presence of an ordinary high-water mark (OHWM) as defined in 33 CFR 328.3(e).

The delineation methodology is described in this report, followed by the results of the delineation. Details regarding soils, topography, hydrology, and vegetation are summarized and routine wetland determination data forms are provided in **Appendix B**. A detailed delineation map illustrates waters of the U.S. on the site (**Figure 3**).

2

#### 3.0 REGULATORY BACKGROUND

The U.S. Army Corps of Engineers (Corps) regulates discharge of dredged or fill material into waters of the United States under Section 404 of the Clean Water Act (CWA). "Discharges of fill material" is defined as the addition of fill material into waters of the U.S., including, but not limited to the following: placement of fill that is necessary for the construction of any structure, or impoundment requiring rock, sand, dirt, or other material for its construction; site-development fills for recreational, industrial, commercial, residential, and other uses; causeways or road fills; fill for intake and outfall pipes and subaqueous utility lines [33 C.F.R. §328.2(f)].

Section 401 of the CWA (33 U.S.C. 1341) requires any applicant for a federal license or permit to conduct any activity that may result in a discharge of a pollutant into waters of the United States to obtain a certification that the discharge will comply with the applicable effluent limitations and water quality standards.

Section 404 of the Clean Water Act requires approval prior to discharging dredged or fill material into the waters of the United States. Typical activities requiring Section 404 permits are:

- Depositing of fill or dredged material in waters of the U.S. or adjacent wetlands;
- Site development fill for residential, commercial, or recreational developments;
- Construction of revetments, groins, breakwaters, levees, dams, dikes, and weirs;
   and
- Placement of rip-rap and road fills.

Section 10 of the Rivers and Harbors Act of 1899 requires approval prior to the accomplishment of any work in or over navigable waters of the United States, or which affects the course, location, condition or capacity of such waters. Typical activities requiring Section 10 permits are:

- Construction of piers, wharves, bulkheads, dolphins, marinas, ramps, floats, intake structures, and cable or pipeline crossings; and
- Dredging and excavation.

Any person, firm, or agency (including federal, state, and local government agencies) planning to work in navigable waters of the United States, or dump or place dredged or fill material in waters of the United States, must first obtain a permit from the Corps. Permits, licenses, variances, or similar authorization may also be required by other federal, state and local statutes.

#### 3.1 Waters of the United States

33 C.F.R. Section 328.3 provides that "waters of the United States" include all waters that are currently used, or were used in the past or are susceptible to use in interstate commerce, all interstate waters and wetlands, and all intrastate lakes, rivers or streams which could affect interstate commerce. In addition, this regulation provides jurisdiction over waters that are tributary to these waters, and "wetlands" adjacent to them. Section 10 and/or Section 404 permits are required for construction activities in these waters. Boundaries between jurisdictional waters and uplands are determined in a variety of ways depending on which type of water is present. Methods for delineating wetlands and non-tidal waters are described below.

Wetlands are defined as "those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" [33 C.F.R. §328.3(b)]. Presently, to be a wetland, a site must exhibit positive indicators of three wetland criteria: hydrophytic vegetation, hydric soils, and wetland hydrology existing under the "normal circumstances" for the site.

The lateral regulatory extent of non-tidal waters is determined by delineating the ordinary high water mark (OHWM) [33 C.F.R. §328.4(c)(1)]. The OHWM is defined by the Corps as "that line on shore established by the fluctuations of water and indicated by physical character of the soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas" [33 C.F.R. §328.3(e)].

#### 3.2 The SWANCC Decision

The *Solid Waste Agency of Northern Cook County v. the U.S. Army Corps of Engineers*, 531 U.S. 159 (2001), is more commonly referred to as the SWANCC decision. SWANCC involved a challenge to CWA jurisdiction over certain isolated, intrastate, non-navigable ponds in Illinois that formerly had been gravel mine pits, but which, over time, provided habitat for migratory birds. Although these ponds served as migratory bird habitat, they were non-navigable and isolated from the tributary system of other waters regulated under the CWA. In SWANCC, the Supreme Court held that the Army Corps of Engineers had exceeded its authority in asserting CWA jurisdiction pursuant to § 404(a) over the waters at issue based on their use as habitat for migratory birds, pursuant to preamble language, commonly referred to as the Migratory Bird Rule [51 Fed. Reg. 41217 (1986)].

SWANCC squarely eliminates CWA jurisdiction over isolated waters that are intrastate and non-navigable, where the sole basis for asserting CWA jurisdiction is the actual or potential use of the waters as habitat for migratory birds that cross state lines in their migrations. CWA jurisdiction extends to waters, including wetlands, which are adjacent to navigable waters pursuant to the Supreme Court holding in Riverside Bayview Homes, which was endorsed in SWANCC as controlling law. Corps and EPA regulations currently define the term adjacent as "bordering, contiguous, or neighboring" [33 C.F.R.

§ 328.3(b)]. The case law on the precise scope of federal CWA jurisdiction since SWANCC is still developing.						

5

#### 4.1 Site-Specific References

Available information pertaining to the natural resources of the region was reviewed. All references reviewed for this delineation are listed in **Section 7.0**. Pertinent site-specific reports and general references utilized concurrent with the delineation include the following:

- Baldwin, B.G., D.H. Goldman, D.J. Keil, R. Patterson, T.J. Rosatti, and D.H. Wilken, editors. 2012. *The Jepson manual: vascular plants of California*, second edition. University of California, Berkeley;
- Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. U.S. Army Corps of Engineers Waterways Experiment Station. Vicksburg, MS;
- Federal Emergency Management Agency (FEMA). 1998. National Flood Insurance Program Q3 Flood Data, Disc 1: California;
- GretagMacbeth. 2000. Munsell Soil Color Charts. New Windsor, NY;
- Lichvar, R.W. 2013. The National Wetland Plant List: 2013 wetland ratings. Phytoneuron 2013-49: 1-241;
- Natural Resource Conservation Service (NRCS). 1980. Soil Survey of Placer County, Western Part, California. U.S. Department of Agriculture;
- NRCS. 2010. Field Indicators of Hydric Soils in the United States, Version 7. G.W. Hurt, P.M. Whited, and R.F. Pringle (Eds). USDA, NRCS in cooperation with the National Committee for Hydric Soils. Fort Worth, TX;
- NRCS. April 2012. *Hydric Soils List for Placer County, California*. U.S. Department of Agriculture;
- U.S. Geological Survey (USGS). 1967. Photorevised 1981. *Rocklin*, *California* 7.5-minute series topographic quadrangle. United States Department of the Interior; and
- USGS. May 2002. Sacramento Urban 0.3-meter DOQQ Imagery. U.S. Department of the Interior.

#### 4.2 Research and Field Methodology

This delineation utilized the Corps' 1987 three-parameter (vegetation, hydrology, and soils) methodology to delineate jurisdictional waters of the U.S., focusing specifically on jurisdictional wetlands. This methodology requires the collection of data on soils, vegetation, and hydrology at several locations to establish the jurisdictional boundary of wetlands. Additional methods to identify and delineate other waters of the U.S. (e.g.,

streams, drainages, lakes) were used as applicable. The method typically used for delineation of non-wetland waters of the U.S. is the delineation of the OHWM.

A review of current aerial photographs, topographic maps, and soils survey data was conducted before a field review of the delineation site. The initial delineation was conducted on August 2, 7, 8, 29 and September 20 of 2006. The 2006 delineation was updated with additional field surveys on November 19 and 20, 2013. Biologists visually inspected the entire site and collected representative data at points within potential wetland areas and corresponding uplands. The location of each data point is depicted in **Figure 3** and corresponding routine wetland determination data forms are provided in **Appendix B**.

#### 4.3 GPS Data Integration

Boundaries of aquatic features within the site were surveyed and mapped with a Trimble GeoXT Global Positioning System (GPS) hand-held unit. This is a mapping-grade GPS unit capable of real-time differential correction and sub-meter accuracy. The GPS data were downloaded from the unit and differentially corrected utilizing Trimble Pathfinder Office software and appropriate base station data, and then converted to ESRI <sup>®</sup> shape file format. Data are typically exported to the Geographic Information System (GIS) software in the State Plane coordinate system (NAD 83) with units as "survey feet." Within the GIS, data are edited and linear features are built into polygons using recorded width information. All wetland shape files are merged to create a single wetland file with calculated acreages. These results are presented in **Figure 3**.

#### 5.1 Study Area Description, Land Use

#### 5.1.1 Study Area Location

The ±63-acre site is located in the Town of Loomis, California, immediately south and east of Interstate 80 and is bisected by Horseshoe Bar Road. The site is bounded by Interstate 80 on the north, Secret Ravine and Brace Road on the south, and Betty Road to the west. The site is also bound on the west by rural residences and agricultural lands and on the east by rural residences, agricultural lands, and oak woodland. The site is located within Section 10 of Township 11 North, Range 7 East on the *Rocklin*, *California* USGS 7.5-minute quadrangle map (**Figure 1**).

#### 5.1.2 Land Use

The site primarily consists of agricultural land, portions of which are used for horse and cattle grazing. There are a few structures associated with keeping livestock on a portion of the site immediately north of Horseshoe Bar Road. Local land uses surrounding the site consist of agriculture (including grazing), rural residential development, and commercial development along Brace Road and on the north side of Interstate.

#### 5.1.3 Site History and Description

A review of an archaeological report indicates the site has been utilized for livestock grazing, a rural residence, and limited agricultural activities (Jensen, 2006). Portions of the southern half of the site west of Horseshoe Bar Road have been disced and are currently used as grazed annual grassland. A few sporadic fruit trees occur within the oak woodland west of Horseshoe Bar Road.

#### **5.2** Physical Features

#### 5.2.1 Soils

The Natural Resources Conservation Service (NRCS) has mapped three soil units on the site (**Figure 2**). The soil units that occur on the site include the following: **Andregg coarse sandy loam, 2 to 9 percent slopes**; **Xerorthents, cut and fill**; and **Xerorthents, Placer areas**. General characteristics associated with these soils types are described below.

• Andregg coarse sandy loam, 2 to 9 percent slopes: This moderately deep and well-drained soil is found on low hills in the Loomis Basin between 200 and 1,000 feet above mean sea level (MSL). Andregg soils formed in material weathered from coarse grained acid igneous rocks, mainly granodiorite. Permeability in this soil is moderately rapid and available water capacity is low.

Natural vegetation includes annual grasses, herbaceous species, blue oak (*Quercus douglasii*), live oak (*Quercus wislizenii*), and scattered pines (*Pinus* spp.). This soil is used mainly for rangeland, while very limited areas are used for pasture or orchards. The hydric soils list for Placer County identifies one unnamed hydric inclusion located within drainageways of this soil type.

- **Xerorthents, cut and fill**: This soil unit consists of mixed soil material that no longer contains discernable horizons. Cut and fill areas are typically well-drained and surface runoff is very rapid. Permeability and available water capacity are variable. These areas are typically used for highways and urban development. The hydric soils list for Placer County does not identify hydric components or inclusions occurring within this soil type.
- **Xerorthents, Placer areas**: This soil unit consists of stony, cobbly, and gravelly materials adjacent to streams that have been placer mined. The soil material is derived from a mixture of rocks. Permeability, surface runoff, drainage, and available water capacity are variable. Natural vegetation typically includes annual grasses, oaks (*Quercus* spp.), willows (*Salix* spp.), alders (*Alnus* spp.), and cottonwoods (*Populus* spp.). These soils have some value for grazing and watering livestock. The hydric soils list for Placer County identifies one unnamed hydric inclusion located within drainageways of this soil type.

#### 5.2.2 Topography

Mildly undulating topography and moderate inclines typify the site and the surrounding area. The topography of the western portions of the site is dominated by a series of more or less rolling hills and intervening low lying areas between them. Generally, the hills and drainageways are oriented in a northeast to southwest alignment. Slopes throughout the site range from approximately two to 50 percent. Elevation ranges from approximately 340 and 370 feet above MSL.

#### 5.2.3 Regional Hydrology

The site is located within the Loomis Basin east of Interstate 80 and spans Horseshoe Bar Road. The Loomis Basin is located at the base of the Sierra-Nevada Mountains and lies between "intermediate" and "semi-Mediterranean" climate zones. The Loomis area typically has a wet season, which occurs from late fall through early spring, and a dry season, which occurs from late spring through early fall (PPGN 2006). Historically, several drainages in this area have been dredged in placer mining operations, which have resulted in the alteration of many waterways.

#### 5.2.4 Site-Specific Hydrology

Portions of the site are within the historic 100-year floodplain of Secret Ravine (FEMA 1998). Annual average precipitation in the Loomis area is approximately 39 inches (PPGN 2006). Hydrologic features identified and mapped within the site include depressional seasonal wetlands, riverine seasonal wetlands, and perennial drainages

(**Figure 3**). Diagnostic characteristics of the features mapped on the site are defined and discussed in **Section 5.4**.

The majority of the seasonal wetlands occur within the southern portion of the oak woodland south of Horseshoe Bar Road. The depressional and riverine seasonal wetlands on the southern half of the site within the oak woodland are predominantly charged by the natural sheeting effect of surface water conducted by the surrounding upland topography, as well as direct rainfall. The riverine seasonal wetland identified as feature #6 is supplied water from an offsite ditch via a culvert. Once the depressional and riverine seasonal wetlands within the oak woodland area reach maximum inundation capacity, water flow likely continues toward Secret Ravine via overland sheet flow.

A perennial drainage flows across the northeastern portion of the site into Secret Ravine offsite. The eastern branch of the perennial drainage connects to a pond, of which a portion is onsite. Secret Ravine enters the western half of the site then continues to flow southeast along the southern property boundary as it meanders across the property boundary until exiting the site.

#### 5.3 Vegetation

Three dominant vegetation assemblages occur on the site including: annual grassland, oak woodland, and Great Valley mixed riparian forest. A detailed description of each of vegetation type is described below.

#### 5.3.1 Annual Grassland

Annual grassland is characterized primarily by an assemblage of non-native grasses and forbs. This vegetation community is found in the western half of the property adjacent to Interstate 80. Much of the vegetation in this community is common to the Central Valley. Dominant grass species within this community consist of soft chess (*Bromus hordeaceous*), ripgut brome (*Bromus diandrus*), wild oat (*Avena fatua*), Italian rye grass (*Festuca perennis*), medusahead (*Elymus caput-medusae*), and little quaking grass (*Briza minor*). Other herbaceous vegetation present were California poppy (*Eschscholzia californica*), clustered dock (*Rumex conglomerates*), rose clover (*Trifolium hirtum*), tarweed (*Centromadia pungens*), star thistle (*Centaurea solstitialis*), Italian thistle (*Carduus pycnocephalus*), vetch (*Astragalus* spp.), bindweed (*Convolvulus arvensis*), elegant broadiaea (*Brodiaea elegans*), and short-podded mustard (*Hirschfeldia incana*).

#### 5.3.2 Oak Woodland

This community covers primarily the southern portion of the site adjacent to Secret Ravine. The overstory of this community is dominated by interior live oaks with scattered valley oaks (*Quercus lobata*), blue oaks, and foothill pines (*Pinus sabiniana*). The understory contains scattered toyon (*Adenostoma fasiculata*), California buckeye (*Aesculus californica*), coyotebrush (*Baccharis pilularis*), California blackberry (*Rubus ursinus*), whitethorn ceanothus (*Ceanothus cordulatus*), and poison oak (*Toxicodendron diversilobum*). Several blue elderberry shrubs (*Sambucus mexicana*) were found within

the oak woodland as well. Naturalized orchard trees within the oak woodland habitat included apple (*Malus* spp.), pear (*Pyrus* spp.), and common fig (*Ficus carica*).

#### 5.3.3 Great Valley Mixed Riparian Forest

This community is associated primarily with the margins of Secret Ravine on the southern and eastern portions of the site. The overstory of this community contains willows, Fremont's cottonwood (*Populus fremontii*), and white alders (*Alnus rhombifolia*). The shrub layer contains blue elderberry, Himalayan blackberry (*Rubus armeniacus*), and poison oak.

#### **5.4** Classification of Waters of the United States

Jurisdictional waters of the U.S. are classified into multiple types based on topography, edaphics (soils), vegetation, and hydrologic regime. Primarily, the Corps establishes two distinctions: wetland and nonwetland waters of the U.S. Nonwetland waters are commonly referred to as other waters of the U.S.

Potential jurisdictional wetland types mapped within the site include the following: depressional seasonal wetland and riverine seasonal wetland. Potential other waters of the U.S. mapped within the site include: intermittent drainage, pond, and perennial drainages. The characteristics of these mapped features are described below.

#### 5.4.1 Depressional Seasonal Wetland

A total of **0.15**-acre of depressional seasonal wetland has been delineated within the site. Depressional seasonal wetlands exhibit a hydrologic regime dominated by saturation, rather than inundation. Plant species in depressional seasonal wetlands are adapted to withstand short periods of saturation or saturated soils conditions but will not withstand prolonged periods of inundation, as is common in vernal pools. Several hydrophytic and water tolerant plant species were found within the depressional seasonal wetland on the site including tall flatsedge (*Cyperus eragrostis*), curly dock (*Rumex crispus*), rabbitsfoot grass (*Polypogon monspeliensis*), Italian rye grass, Himalayan blackberry, and California blackberry. The majority of depressional seasonal wetlands are located in the southern portion of the western half of the site near Secret Ravine. In addition, one depressional season wetland is located next to Interstate 80 at the northwestern corner of the western half of the site, and another is located in the northwest portion of the eastern half of the site (**Figure 3**).

#### 5.4.2 Riverine Seasonal Wetland

A total of **0.53**-acre of riverine seasonal wetland has been delineated within the site. Riverine seasonal wetlands are defined by a hydrologic regime dominated by unidirectional flow of water. Riverine seasonal wetlands typically occur in topographic folds or swales and represent natural drainages that convey sufficient water to support wetland vegetation. They typically convey water during and shortly after storm events. Riverine seasonal wetlands usually have a moderately defined bed and bank. As in

depressional seasonal wetlands, plant species found within riverine seasonal wetlands are typically adapted to a hydrologic regime dominated by saturation rather than inundation. Plant species observed within these features on the site include cocklebur (*Xanthium strumarium*), spearmint (*Mentha spicata*), rabbitsfoot grass, common spikerush (*Eleocharis macrostaycha*), bog yellow cress (*Rorippa palustris*), willows, valley oaks, and tall flatsedge. Riverine seasonal wetlands are located in the southern portion of the site (**Figure 3**).

#### 5.4.3 Intermittent Drainage

A total of **0.01-**acre of intermittent drainage has been delineated within the site (**Figure 3**). Intermittent drainages, as in ephemeral drainages, are features that do not meet the three-parameter criteria for vegetation, hydrology and soils, but do convey water and exhibit an ordinary high water mark. Water flows within intermittent drainages are fed primarily by a seasonally perched groundwater table and supplemented by precipitation and stormwater runoff. After the initial onset of rains, these features have persistent flows throughout and past the end of the rainy season. Typically, these features exhibit a defined bed and bank and show signs of scouring as a result of rapid flow events. The bed of intermittent drainages consists of cobble often interrupted with bedrock. Hydrophytic vegetation may occur in association with intermittent drainages. The intermittent drainage on the site flows from the riverine seasonal wetland in the southwest corner of the project towards Secret Ravine.

#### 5.4.4 Perennial Drainage

A total of **0.44-**acre of perennial drainage has been delineated within the site. Perennial drainages are features that may not meet the three-parameter criteria for vegetation, hydrology, and soils but do convey water and exhibit an ordinary high water mark. Perennial drainages generally convey unidirectional water flows throughout the entire year. Perennial drainages typically consist of a channel, bed, and bank and are mostly devoid of vegetation due to the scouring effect of flowing water. Perennial drainages are often bordered by wetland vegetation communities of various composition and cover depending on flow rates, duration of flows and soil types. Plants observed growing on the banks of the perennial drainage include cottonwood, white alder, valley oak, willow, California and Himalayan blackberry, and in certain sections, cattails (*Typha* sp.). Portions of the perennial drainages that occur on the site are located along the southern boundary of the western half of the site and crossing the eastern portion of the site (**Figure 3**).

#### 5.4.5 Pond

A total of **0.01-**acre of pond has been delineated in the northeast corner of the site (**Figure 3**). The pond on the site is charged by the perennial drainage that traverses the central portion of the northern half of the site and flow east towards the west side of the pond. Ponds are often a result of the placement of a dam within jurisdictional waters, as is the suspected origin of the feature onsite. According to the supply of water from a perennial drainage that is likely jurisdictional, the close proximity of the pond to Secret

Ravine, and likelihood that pond flows into Secret Ravine; this feature would likely be subject to Corps jurisdiction.	<b>;</b>

#### 6.0 CONCLUSIONS

Application of routine wetland delineation techniques revealed the presence of features that appear to conform to the definition of waters of the U.S pursuant to Section 404 of the Federal Clean Water Act. Potential jurisdictional wetland types mapped within the site include depressional seasonal wetland and riverine seasonal wetland. Other waters of the U.S. delineated within the site include perennial drainage, intermittent drainage, and a pond. In addition, portions of the site nearest the perennial drainage are located within the 100-year floodplain.

The final determination of the extent of Corps' jurisdiction on the property pursuant to Section 404 of the Federal Clean Water Act will depend on the results of field verification by the Corps. Areas deemed jurisdictional will then be subject to the regulatory requirements of the federal Clean Water Act including permitting and mitigation, as required.

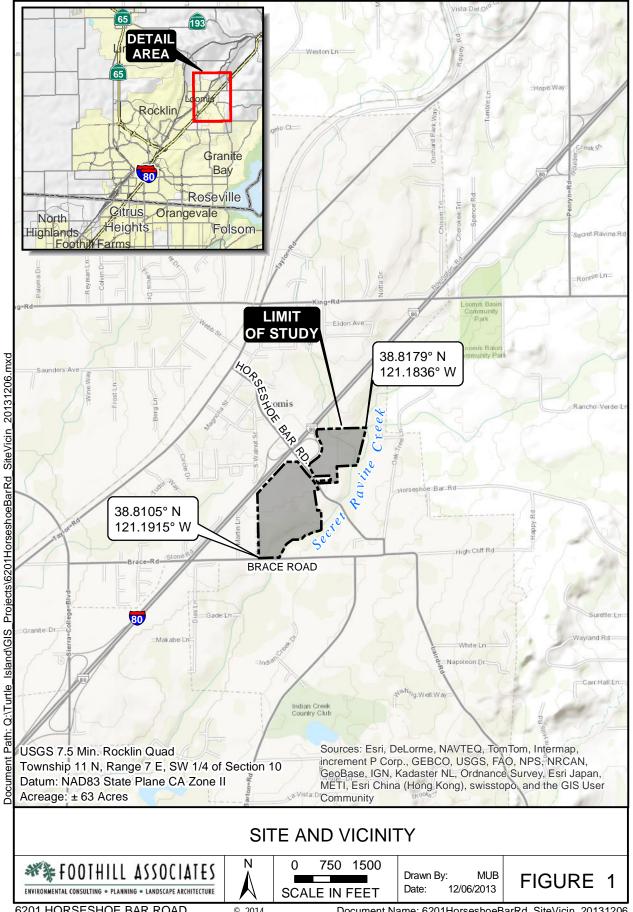
**Table 1** below provides acreage per class and summarizes the total acreage of wetlands and waters on the site.

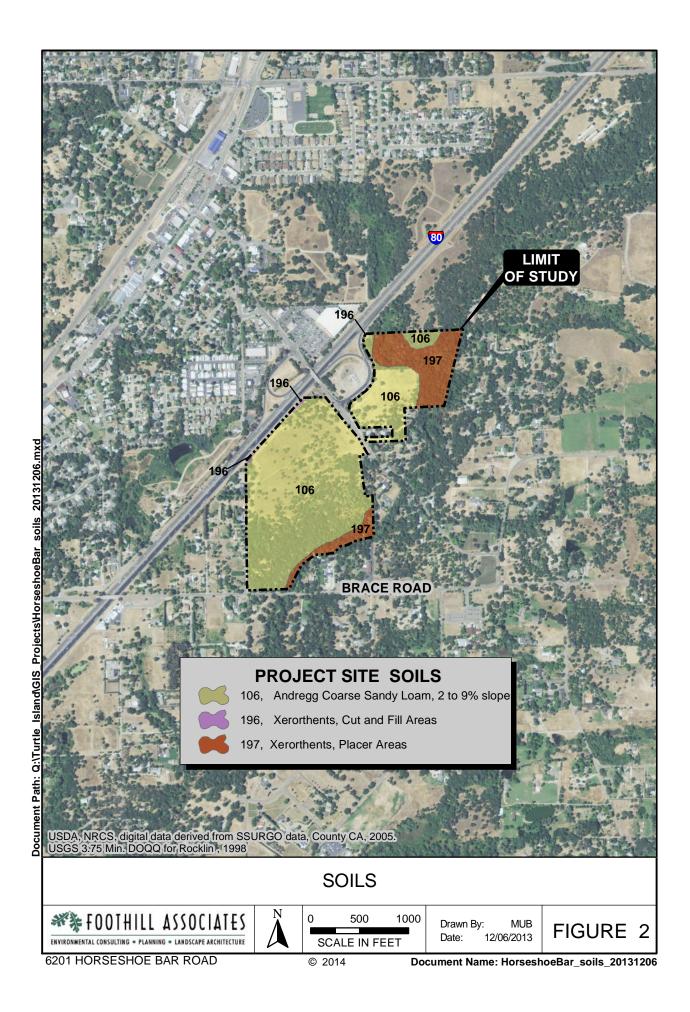
Table 1 — Waters of the U.S.: Acreage According to Feature Classification

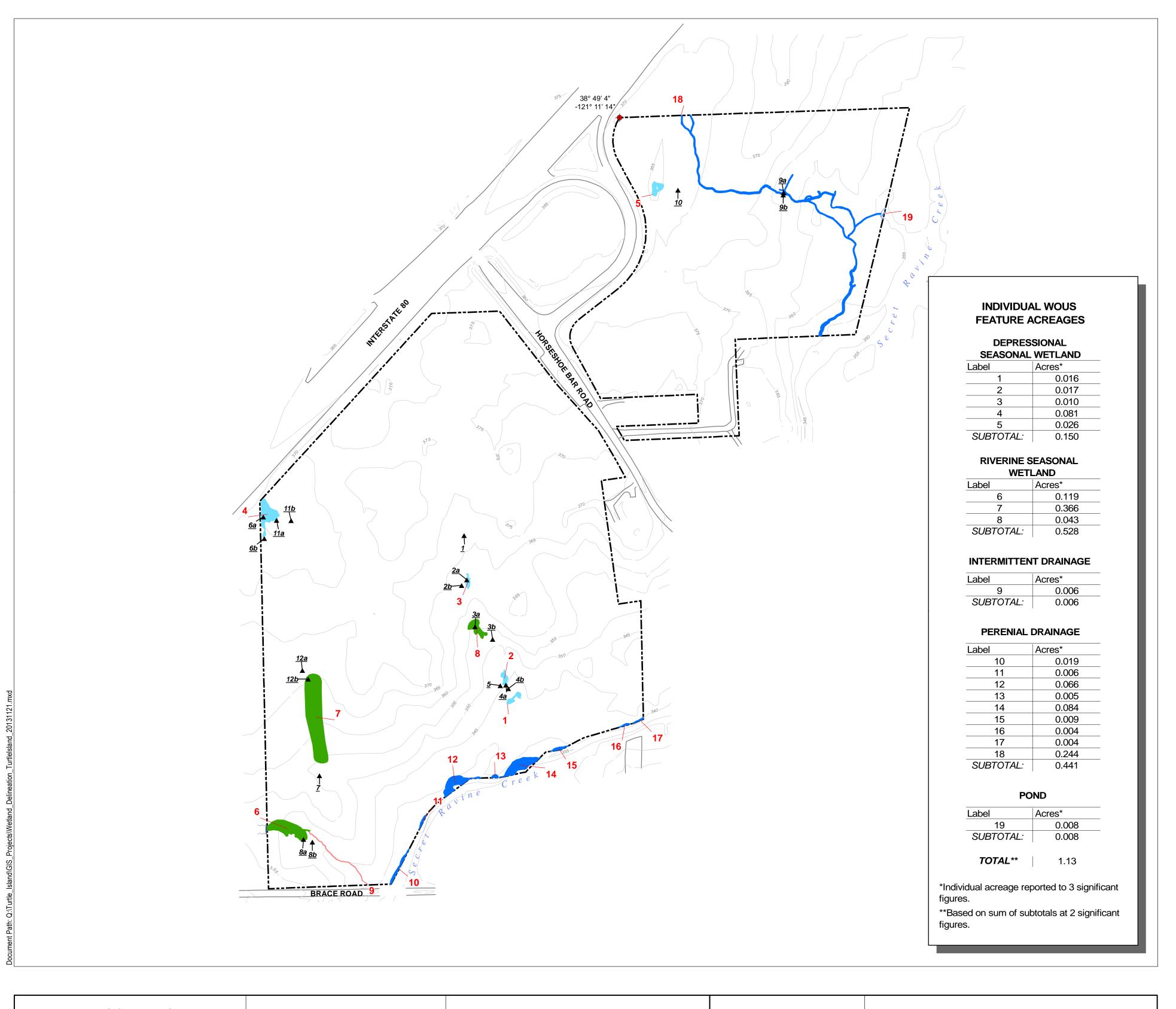
Classification	Total Acreage
Depressional Seasonal Wetland	0.15
Riverine Seasonal Wetland	0.53
Intermittent Drainage	0.01
Perennial Drainage	0.44
Pond	0.01
TOTAL	1.13

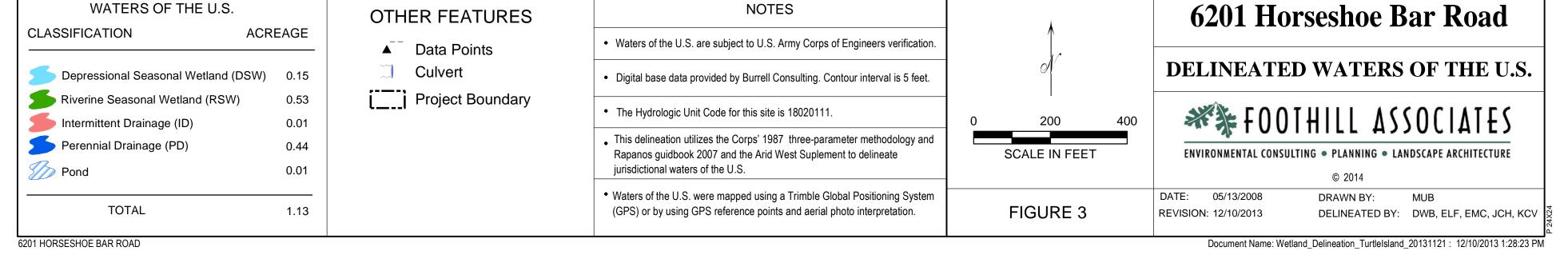
- Baldwin, B.G., D.H. Goldman, D.J. Keil, R. Patterson, T.J. Rosatti, and D.H. Wilken, editors. 2012. *The Jepson manual: vascular plants of California*, second edition. University of California, Berkeley
- Environmental Laboratories. 1987. *Corps of Engineers Wetlands Delineation Manual*. U.S. Army Corps of Engineers Waterways Experiment Station. Vicksburg, MS.
- Federal Emergency Management Agency (FEMA). 1998. National Flood Insurance Program Q3 Flood Data, Disc 1: California.
- GretagMacbeth. 2000. Munsell Soil Color Charts. New Windsor, NY.
- Hitchcock, A.S. 1935. Revised 1971. *Manual of the Grasses of the United States*. U.S. Department of Agriculture, Dover Publications, NY.
- Hitchcock, L.C. and A. Cronquist. 1996. *Flora of the Pacific Northwest*. University of Washington Press, Seattle, WA.
- Jensen, S. 2006. Archaeological Inventory Survey: Turtle Island Development Project, c.60 acres at Loomis, Placer County California.
- Mason, H.L. 1957. A Flora of the Marshes of California. University of California Press, Berkeley, CA.
- Munz, P.A. 1968. *A California Flora and Supplement*. University of California Press, Berkeley, CA.
- Natural Resource Conservation Service (NRCS). 1980. *Soil Survey of Placer County, California*. U.S. Department of Agriculture.
- NRCS. March 1992. *Hydric Soils List for Placer County, California*. U.S. Department of Agriculture.
- NRCS. 2003. Field Indicators of Hydric Soils in the United States, Version 5.01. G.W. Hurt, P.M. Whited, and R.F. Pringle (eds). USDA, NRCS in cooperation with the National Committee for Hydric Soils. Fort Worth, TX.
- NRCS. 2010. *Field Indicators of Hydric Soils in the United States*, Version 7. G.W. Hurt, P.M. Whited, and R.F. Pringle (Eds). USDA, NRCS in cooperation with the National Committee for Hydric Soils. Fort Worth, TX
- Park Place Gardens Nursery (PPGN). *The Climate of Loomis*. Located at: <a href="http://www.ppgn.com/lolwprofile.html">http://www.ppgn.com/lolwprofile.html</a>.

- Reed, P.B., Jr. 1988. National List of Plant Species That Occur in Wetlands: California (Region O); U.S. Fish & Wildlife Service.
- Sawyer, J.O. and T. Keeler-Wolf. 1995. *A Manual of California Vegetation*. California Native Plant Society (CNPS), Sacramento, CA.
- U.S. Geological Survey (USGS). 1967 (Photorevised 1981). *Rocklin, California* 7.5-minute series topographic quadrangle. U.S. Department of the Interior.
- USGS. May 2002. Sacramento Urban 0.3-meter DOQQ Imagery. U.S. Department of the Interior.









### **Appendix A** — Contact Information

**Client Contact Information:** Steve McCullagh

Oakmont Senior Living LLC 220 Concourse Boulevard Santa Rosa, CA 95403

**Delineation Conducted by:** Meredith Branstad, Biologist

Kirk Vail, Biologist Foothill Associates

590 Menlo Drive, Suite 5 Rocklin, CA 95765

# Appendix B — Routine Wetland Determination Data Forms

# DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Loomis Market Applicant/Owner: KOBRA Investigator: Elaine Flock Eric Christense	Date: 08/02/2006 County: Placer State: California							
Do Normal Circumstances exist on the site?  Is the site significantly disturbed (Atypical Situation)?  Is the area a potential Problem Area?  (If needed, explain on reverse.)  O Yes O No								
VEGETATION			_					
Dominant Plant Species  1. Bromus hordeaceus (30%)  2. Torilis arvensis (30%)  3. Rubus discolor (40%)  4. Quercus douglassi (10%)  5. Quercus lobata (10%)  6. Baccharis salicifolia (10%)  7  8  Percent of Dominant Species that are (excluding FAC-).  Remarks: Insufficient hydrophyte	HERB HERB SHRUB TREE TREE SHRUB OBL, FACW or	FAC	9	Stratum Indicator				
Recorded Data (Describe in Rem Stream, Lake, or Tide Gauge Aerial Photographs Vother No Recorded Data Available  Field Observations:  Depth of Surface Water:  Depth to Free Water in Pit:  Depth to Saturated Soil:		A (in.)	Wetland Hydrology Indicators:    Inundated   Saturated in Upp   Water Marks   Drift Lines   Sediment Depos   Drainage Pattern Secondary Indicators (2   Oxidized Root Cl   Water-Stained Le   Local Soil Survey   FAC-Neutral Test   Other (Explain in	er 12 Inches  its s in Wetlands 2 or more required): hannels in Upper 12 Inches saves y Data				
Remarks: Insufficient hydrolog	y indicators.	Other: topo	graphic map.					

	d Phase): <u>An</u>	dregg coarse sa Ultic Haploxer	ndy loam, 2-9% s olls	Fie	ainage Class: Well Drained eld Observations onfirm Mapped Type? Yes No			
Profile Des Depth (inches)	cription: Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.			
0-6	<u>A</u>	10YR 3/2	N/A	N/A	gravelly clay loam			
		( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )						
Remarks:	Hydric Soil Indicators:    Histosol							
Hydrophyti Wetland H	c Vegetation F ydrology Presols Present?	Present? C	Yes O No Yes O No Yes O No	ls this Sampling F	Point Within a Wetland? O Yes O No			
Remarks:	Remarks: Does not meet all three wetland parameters; upland.							

# DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Loomis Marketplace  Applicant/Owner: KOBRA Properties  Investigator: Elaine Flock  Eric Christensen							
Do Normal Circumstances exist on the site?  Is the site significantly disturbed (Atypical Situation)?  Is the area a potential Problem Area?  (If needed, explain on reverse.)							
HERB FACW SHRUB FACW*  e OBL, FACW or FAC  phytic vegetation.	9. Bromus hordeaceus 10. Lolium perenne (tr) 11. Polypogon monspeli 12. Cirsium sp. (15%) 13. Torilis arvensis (10%) 14. Rumex crispus (5%) 15.	HERB FAC* iensis (10%) HERB FACW+ HERB W) HERB UPL					
marks): ge	Wetland Hydrology Indicate Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines Sediment Depos Drainage Pattern: Secondary Indicators (C	er 12 Inches sits is in Wetlands 2 or more required):					
N/A(in.)N/A(in.)	<ul> <li>✓ Oxidized Root Channels in Upper 12 Inches</li> <li>✓ Water-Stained Leaves</li> <li>Local Soil Survey Data</li> <li>✓ FAC-Neutral Test</li> <li>Other (Explain in Remarks)</li> </ul>						
	exist on the site? urbed (Atypical Situation blem Area? erse.)  Stratum Indicator HERB FACW SHRUB FACW*  OBL, FACW or FAC  phytic vegetation.	exist on the site? urbed (Atypical Situation)? Yes No olem Area? erse.)  Stratum Indicator HERB FACW SHRUB FACW*  10. Lolium perenne (tr) 11. Polypogon monspeli 12. Cirsium sp. (15%) 13. Torilis arvensis (10%) 14. Rumex crispus (5%) 15. 16.  e OBL, FACW or FAC  100 %  phytic vegetation.  Wetland Hydrology Indicators: Inundated Saturated in Upp Water Marks Drift Lines Secondary Indicators: Sediment Depos Drainage Pattern Secondary Indicators: Oxidized Root C					

32	d Phase): And	dregg coarse sa Ultic Haploxero	ndy loam, 2-9% slo lls	Fie	ainage Class: Well observations on firm Mapped Type?	Drained O Yes	- <b>①</b> No
Profile Des Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Texture, Concretions, Structure, etc.			
0-10	0-10 A 10YR 3/2 2		2.5YR 3/6	few/fine/prom	sandy clay loa	am	
□ H □ Si □ Ai □ R ☑ G	istosol stic Epipedon ulfidic Odor quic Moisture R educing Condit leyed or Low-C Sufficient hyc Soil at data po	tions Chroma Colors dric soil indicator	☐ Organic ☐ Listed o ☐ Listed o ☐ Other (	rganic Content in Surface L c Streaking in Sandy Soils on Local Hydric Soils List on National Hydric Soils List explain in Remarks) with mottles. Unable to		ue to dry, 1	rocky soils.
VETLAN	D DETERM	MINATION			W-4000-01		
Wetland H	ic Vegetation P ydrology Prese ils Present?	ent? O	Yes O No Yes O No Yes O No	ls this Sampling F	Point Within a Wetland	? <b>O</b> Yes	<b>O</b> No
Remarks:	Meets all thre	ee wetland param	eters; depressional s	easonal wetland.			

# DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Loomis Market Applicant/Owner: KOBRA Investigator: Elaine Flock Eric Christens	Date: 08/02/2006 County: Placer State: California		
Do Normal Circumstances Is the site significantly distu Is the area a potential Prob (If needed, explain on reve	urbed (Atypical Situatio blem Area?	● Yes ○ No n)? ○ Yes ● No ○ Yes ● No	Community ID: UPL Transect ID: 2 Plot ID: b
VEGETATION			
Dominant Plant Species  1. Bromus diandrus (40%)  2. Torilis arvensis (30%)  3. Rubus discolor (40%)  4. Quercus wislizenii (70%)  5	OBL, FACW or FAC	11	
Recorded Data (Describe in Rei Stream, Lake, or Tide Gaug Aerial Photographs Other No Recorded Data Available  Field Observations:  Depth of Surface Water:  Depth to Free Water in Pit:  Depth to Saturated Soil:	Marks): e N/A(in.)N/A(in.)N/A(in.)	Wetland Hydrology Indicate Primary Indicators: Inundated Saturated in Upp Water Marks Drift Lines Sediment Depos Drainage Pattern Secondary Indicators (2 Oxidized Root Cl Water-Stained Le Local Soil Survey FAC-Neutral Test	ner 12 Inches  sits as in Wetlands 2 or more required): hannels in Upper 12 Inches eaves y Data t
Remarks: Insufficient hydrolog	gy indicators. Other: topo	ographic map.	

(Series an	Map Unit Name (Series and Phase): Andregg coarse sandy loam, 2-9% slopes  Taxonomy (Subgroup): Ultic Haploxerolls  Drainage Class: Well Drained Field Observations Confirm Mapped Type? • Yes									
Profile Des Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.						
0-8	<u>A</u>	10YR 3/3	7.5YR 4/6	few/fine/prom	sandy clay loam	_				
Hydric Soil										
□ H □ Si □ Ai □ Ri	stosol stic Epipedon ulfidic Odor quic Moisture educing Cond leyed or Low-	Regime	☐ Organi ☐ Listed ☐ Listed	stions Irganic Content in Surface L ic Streaking in Sandy Soils on Local Hydric Soils List on National Hydric Soils List (Explain in Remarks)						
Remarks: ]	nsufficient l	hydric soil indicat	ors. Unable to dig p	ast 8 inches due to dry, re	ocky soils.					
VETLAN	D DETER	MINATION								
Wetland H	c Vegetation ydrology Pres ls Present?	sent? C	Yes O No Yes O No Yes O No	ls this Sampling P	Point Within a Wetland? O Yes	<b>⊙</b> No				
Remarks: Does not meet all three wetland parameters; upland.										
				64		9				

# DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Loomis Marketplace Applicant/Owner: KOBRA Properties Investigator: Elaine Flock Eric Christensen					
st on the site? ed (Atypical Situation n Area? .)	● Yes ○ No on)? ○ Yes ● No ○ Yes ● No	Comm Transe Plot ID	Parada and a second a second and a second an		
HERB FAC* SHRUB FACW* TREE TREE FAC SHRUB UPL	9. Bromus hordeaceus 10. Cyperus eragrostis (1 11. Cirsium sp. (10%) 12. Quercus wislizenii (1 13.	5%)			
N/A (in.)  N/A (in.)  N/A (in.)	Primary Indicators: Inundated Saturated in Upp Water Marks Drift Lines Sediment Depos Drainage Pattern Secondary Indicators (3 Oxidized Root Cl Water-Stained Le Local Soil Survey FAC-Neutral Test Other (Explain in	er 12 Inche sits sin Wetlan 2 or more re hannels in le eaves y Data t Remarks)	ds equired): Upper 12 Inches		
	Stratum Indicator HERB FAC* SHRUB FACW* TREE TREE FAC SHRUB UPL  , FACW or FAC ic vegetation. Assumes.	Stratum Indicator HERB FAC* SHRUB FACW* TREE TAC SHRUB UPL  SHRUB UPL  SHRUB SHRUB SHRUB SPECIES SHRUB UPL  SH	Stratum   Indicator   Associate Plant Species   Plot ID    Stratum   Indicator   HERB   FAC*   9. Bromus hordeaceus (tr)    TREE   TREE   11. Cirsium sp. (10%)    TREE   FAC   12. Quercus wislizenii (5%)    SHRUB   UPL   13.   14.   15.   16.    TREC   FACW or FAC   80   9/0    Sheward of the site?   Yes   No   No   Transe   Plot ID    Wetland Hydrology indicators:   Primary Indicators:   Primary Indicators:   Inundated   Saturated in Upper 12 Inche   Water Marks   Drift Lines   Drainage Patterns in Wetlan   Secondary Indicators (2 or more reconded in the secondary Indicators (2 or more reconded in		

	d Phase): $An$	dregg coarse Ultic Haploxe		oam, 2-9% slop	F	Field Ob	e Class: We eservations Mapped Type	ell Drained	_ <b>⊙</b> №
Profile Des Depth (inches) 0-6 6-10	Horizon A A	Matrix Color (Munsell Moist) 10YR 2/1 10YR 4/1	M)	ottle Colors unsell Moist) N/A 7.5YR 5/6	Mottle Abundance/ Size/Contrast  N/A  comm/med/pror		sandy clay l	loam	
H H H S S S S S S S S S S S S S S S S S	Hydric Soil Indicators:    Histosol								
WETLAN	D DETER	MINATION							
Wetland H	ic Vegetation ydrology Pres ils Present?		O Yes O Yes O Yes	O No O No O No	ls this Sampling	g Point	Within a Wetla	nd? • Yes	O No
Remarks:	Remarks: Meets all three wetland parameters; riverine seasonal wetland.								

# DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Loomis Marketp Applicant/Owner: KOBRA F Investigator: Elaine Flock Eric Christense  Do Normal Circumstances et Is the site significantly distur Is the area a potential Proble (If needed, explain on revers	Date: 08/02/2006 County: Placer State: California  Community ID: UPL Transect ID: 3 Plot ID: b		
VEGETATION			
Dominant Plant Species  1. Cirsium sp. (50%)  2. Torilis arvensis (20%)  3. Rubus discolor (20%)  4. Quercus wislizenii (10%)  5. Salix sp. (10%)  6. Toxocodendron divers. (10%)  7	DBL, FACW or FAC	9	Stratum Indicator  which is FACU. Assuming Salix
Recorded Data (Describe in Remal Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available  Field Observations:  Depth of Surface Water:  Depth to Free Water in Pit:  Depth to Saturated Soil:  Remarks: Insufficient hydrology	N/A(in.)N/A(in.)	☐ Water-Stained L ☐ Local Soil Surve ☐ FAC-Neutral Tes ☐ Other (Explain in	per 12 Inches  sits ns in Wetlands (2 or more required): Channels in Upper 12 Inches Leaves by Data st n Remarks)

113	d Phase): <u>An</u>	dregg coarse san Ultic Haploxerol	dy loam, 2-9% sl ls	Fie	ainage Class: Well Drained eld Observations onfirm Mapped Type? O Yes  O No	
Profile Des Depth (inches)	Horizon A	Matrix Color (Munsell Moist) 10YR 2/1	Mottle Colors (Munsell Moist) N/A	Mottle Abundance/ Size/Contrast N/A	Texture, Concretions, Structure, etc. sandy clay loam	
Hydric Soil Indicators:    Histosol						
Hydrophyt Wetland H	D DETERM ic Vegetation P ydrology Prese ils Present?	resent? O	es O No	ls this Sampling F	Point Within a Wetland? ○ Yes ○ No	
Remarks:	Does not me	et all three wetland	l parameters; uplar	nd.		

# DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Loomis Marke Applicant/Owner: KOBRA Investigator: Elaine Flock Eric Christens	Date: 08/02/2006 County: Placer State: California			
Do Normal Circumstances exist on the site?  Is the site significantly disturbed (Atypical Situation)?  Is the area a potential Problem Area?  (If needed, explain on reverse.)  O Yes O No Community ID: DSW Transect ID: 4 Plot ID: a				
VEGETATION				
Dominant Plant Species  1. Lolium perenne (80%)  2. Rubus discolor (10%)  3. Quercus lobata (15%)  4. Quercus wislizenii (10%)  5	OBL, FACW or FAC	12 13 14 15		
Recorded Data (Describe in Rer Stream, Lake, or Tide Gaug Aerial Photographs Other No Recorded Data Available  Field Observations:  Depth of Surface Water:  Depth to Free Water in Pit:  Depth to Saturated Soil:		Wetland Hydrology Indicators:    Primary Indicators:   Inundated     Saturated in Uppe     Water Marks     Drift Lines     Sediment Deposi     Drainage Patterns     Secondary Indicators (2     Oxidized Root Cr     Water-Stained Le     Local Soil Survey     FAC-Neutral Test     Other (Explain in	er 12 Inches  its s in Wetlands or more required): nannels in Upper 12 Inches aves Data	
Remarks: Sufficient hydrology indicate water pools attached riverine sea	within feature. Feature is	C-neutral test. Other: tops depressional in shape. V	ographic map. Cracks in soil Water appears to flow into	

Map Unit Name (Series and Phase): Andregg coarse sandy loam, 2-9% slopes  Ultip Hankawarella Field Observations								
Taxonomy (Subgroup): Ultic Haploxerolls					Confirm Mapped Type? Yes			
Profile Des Depth (inches)	cription: Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.			
0-10	<u>A</u>	10YR 3/1	7.5YR 4/6	comm/med/prom	sandy clay loam	_		
			-5					
□ Hi □ Hi □ St □ Ad	Hydric Soil Indicators:    Histosol							
Remarks: Sufficient hydric soil indicators - low chroma soil with mottles. Also observed soft manganese concretions. Unable to dig past 10 inches due to dry, rocky soils. Soil at data point similar, but not an exact match of mapped soils.								
VETLANI	VETLAND DETERMINATION							
Wetland Hy	c Vegetation P ydrology Prese ls Present?	ent?	res O No res O No res O No	ls this Sampling P	Point Within a Wetland? <b>①</b> Yes	O No		
Remarks: Meets all three wetland parameters; depressional seasonal wetland.								

## DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Loomis Market Applicant/Owner: KOBRA Investigator: Elaine Flock Eric Christen	Properties		Date: 08/02/2006 County: Placer State: California
Do Normal Circumstances Is the site significantly dist Is the area a potential Prof (If needed, explain on reve	exist on the site? urbed (Atypical Situation plem Area?	● Yes ○ No n)? ○ Yes ● No ○ Yes ● No	Community ID: UPL Transect ID: 4 Plot ID: b
Dominant Plant Species  1. Torilis arvensis (40%)  2. Rubus discolor (20%)  3. Quercus wislizenii (30%)  4. Bromus diandrus (20%)  5. Cirsium sp. (20%)  6.  7.  8.  Percent of Dominant Species that are (excluding FAC-).  Remarks: Insufficient hydrophy	o OBL, FACW or FAC	12 13 14 15 16 20 %	HERB FACW- TREE FAC
Recorded Data (Describe in Re Stream, Lake, or Tide Gaug Aerial Photographs Other No Recorded Data Available  Field Observations:  Depth of Surface Water:  Depth to Free Water in Pit:  Depth to Saturated Soil:  Remarks: Insufficient hydrological streams and surface water.		Water-Stained Le Local Soil Survey FAC-Neutral Test Other (Explain in	er 12 Inches  its s in Wetlands 2 or more required): hannels in Upper 12 Inches eaves y Data t Remarks)

	d Phase): An	dregg coarse Ultic Haploxe		oam, 2-9% s	slopes		Field (	ge Class: We Observations m Mapped Type?	Il Drained O Yes	O No
Profile Des Depth (inches)	Horizon A	Matrix Color (Munsell Moist) (Munsell Moist) Mottle Abundance/ Size/Contrast  10YR 3/2 7.5YR 5/8 comm/med/prom				om	Texture, Concret Structure, etc. sandy clay l	0.000.000		
H H H S S G R G R G R G R G R G R G R G R G R	Indicators: istosol istic Epipedon ulfidic Odor quic Moisture R educing Condii leyed or Low-C	tions Chroma Colors	tors - lov	☐ Orgar ☐ Listed ☐ Listed ☐ Other	Organic nic Streat d on Loo d on Nat r (Explai	c Content in Surfact aking in Sandy Soil al Hydric Soils List tional Hydric Soils I n in Remarks) nottles. Unable to ped soils.	ils t List		ue to dry, ro	ocky soils.
VETLAN	D DETERN	MINATION								
Wetland H	ic Vegetation P ydrology Prese ils Present?	ent?	O Yes O Yes O Yes	O No O No O No		ls this Samplin	ng Poin	t Within a Wetlar	id? O Yes	<b>⊙</b> No
Remarks:	Does not me	et all three wet	tland par	ameters; uplar	nd.					- 1

## DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Loomis Marketpl Applicant/Owner: KOBRA Pr Investigator: Elaine Flock Eric Christensen  Do Normal Circumstances ex Is the site significantly disturb Is the area a potential Proble (If needed, explain on reverse	ist on the site? led (Atypical Situation m Area?	● Yes ○ No n)? ○ Yes ● No ○ Yes ● No	Date: 08/02/2006 County: Placer State: California  Community ID: RSW Transect ID: 5 Plot ID:
	SHRUB FACW* HERB OBL	9. Unknown grass (10 10	
Recorded Data (Describe in Rema   Stream, Lake, or Tide Gauge   Aerial Photographs   Other   No Recorded Data Available    Field Observations:  Depth of Surface Water:  Depth to Free Water in Pit:  Depth to Saturated Soil:  Remarks: Sufficient hydrology in indicate water pools with the stream of the surface water pools with the surfa	N/A (in.) N/A (in.) N/A (in.)	Water-Stained I Local Soil Surve FAC-Neutral Tee Other (Explain i	per 12 Inches  sits ns in Wetlands (2 or more required): Channels in Upper 12 Inches Leaves ey Data st in Remarks)

Map Unit N (Series and	lame d Phase): <u>Ar</u>	ndregg coarse sa	ndy loam, 2-	9% slope	es	Drainage			Drained	
Taxonomy	(Subgroup):	Ultic Haploxero	olls				servations Mapped		O Yes	<b>⊙</b> No
Profile Des Depth (inches)	Scription: Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moi		Mottle Abundance/ Size/Contrast	201 27	Cexture, Co Structure, e		ns,	
0-10	A	10YR 3/1	7.5YR 4/0	6	comm/med/pre	rom	sandy c	lay loa	am	
						-				
☐ His Su ☐ Ac ☐ Re ☑ Gl	stosol stic Epipedon ulfidic Odor quic Moisture I educing Cond leyed or Low-C	Regime	rs - low chroma	Organic St Listed on I Listed on I Other (Exp	nic Content in Surfar reaking in Sandy So ocal Hydric Soils Lis Vational Hydric Soils lain in Remarks)	oils st s List bserved s	soft mans	ganese	concretion of mapped	ns. Unable soils.
VETLANI	) DETER	MINATION								
Wetland Hy	c Vegetation F ydrology Pres Is Present?	sent?	Yes O No Yes O No Yes O No		ls this Samplii	ng Point \	Within a W	/etland?	? <b>①</b> Yes	O No
Remarks:	Meets all thi	ree wetland param	ieters; riverine	seasonal	wetland.					
	×									
										20

## DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Loomis Market Applicant/Owner: KOBRA Investigator: David Bise Eric Christense	Properties		Date: 08/07/2006 County: Placer State: California
Do Normal Circumstances of Is the site significantly disturn Is the area a potential Probatily (If needed, explain on rever	rbed (Atypical Situation Iem Area?	on)? ○ Yes ○ No ○ Yes ○ No ○ Yes ○ No	Community ID: DSW Transect ID: 6 Plot ID: a
VEGETATION			
Dominant Plant Species  1. Cynodon dactylon (65%)  2. Querçus wislizenii (20%)  3. Rubus discolor (5%)  4  5  6  7  8  Percent of Dominant Species that are (excluding FAC-).  Remarks: Sufficient hydrophytic	OBL, FACW or FAC	14 15	HERB FACW-
Recorded Data (Describe in Ren Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available  Field Observations:  Depth of Surface Water:  Depth to Free Water in Pit:  Depth to Saturated Soil:	N/A (in.) N/A (in.) N/A (in.)	✓ Water-Stained Le  Local Soil Survey ✓ FAC-Neutral Test  Other (Explain in	er 12 Inches  its s in Wetlands 2 or more required): hannels in Upper 12 Inches eaves y Data t Remarks)
Remarks: Sufficient hydrology leaves. Other: topogr		vithin a topographic depres	ssion containing water-stained

	nd Phase): $X_0$	erorthents, cut a	and fill areas	Fie	ainage Class: Variable eld Observations onfirm Mapped Type? Yes	No		
Profile De Depth (inches)	escription: Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.	2.8		
0-6	A	7.5YR 4/2	5YR 5/6	many/med/prom	ed/prom sandy loam			
	20	Regime litions Chroma Colors	☐ Organ☐ Listed☐ Listed☐ Uther☐	Organic Content in Surface L nic Streaking in Sandy Soils d on Local Hydric Soils List d on National Hydric Soils List r (Explain in Remarks)	en e	ocky soils.		
ETLAN	D DETER	MINATION			_			
Wetland F	tic Vegetation I Hydrology Pres ills Present?	ent? ©	Yes O No Yes O No Yes O No	ls this Sampling F	Point Within a Wetland? • Yes	O No		
Remarks:	Meets all the	ree wetland parar	neters; depressional	seasonal wetland.				

## DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Loomis Marketplace Applicant/Owner: KOBRA Properties Investigator: David Bise Eric Christensen		Date: 08/07/2006 County: Placer State: California
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	● Yes ○ No )? ○ Yes ● No ○ Yes ● No	Community ID: UPL Transect ID: 6 Plot ID: b
VEGETATION		
Dominant Plant Species	12 13 14 15	
(excluding FAC-).  Remarks: Insufficient hydrophytic vegetation.		
HYDROLOGY  Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available	Wetland Hydrology Indicate Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines	er 12 Inches
Field Observations:         N/A (in.)           Depth of Surface Water:         N/A (in.)           Depth to Free Water in Pit:         N/A (in.)           Depth to Saturated Soil:         N/A (in.)		s in Wetlands 2 or more required): nannels in Upper 12 Inches eaves y Data
Remarks: Insufficient hydrology indicators. Other: topog	graphic map.	

72.7	d Phase): And	dregg coarse Ultic Haplox	- 1100	oam, 2-9% slo		Field O	ge Class: Well D bservations n Mapped Type?	rained O Yes	<ul><li>⊙ No</li></ul>
Profile Des Depth (inches)	ecription: Horizon	Matrix Color (Munsell Moist)		ottle Colors unsell Moist)	Mottle Abundance/ Size/Contrast		Texture, Concretions Structure, etc.	ŭ.	
0-8	<u>A</u>	10YR 3/3		N/A	N/A		sandy loam		
						_			
Hi   Si   Re   Re   Gl	stosol stic Epipedon ulfidic Odor quic Moisture R educing Condit leyed or Low-C	ions hroma Colors ydric soil indio	cators. U	☐ Organic ☐ Listed o ☐ Listed o ☐ Other (E	ions ganic Content in Surface Streaking in Sandy Soil n Local Hydric Soils List n National Hydric Soils L xplain in Remarks)	ls List			
Hydrophytic Wetland Hy	c Vegetation P ydrology Prese s Present?	resent?	O Yes O Yes O Yes	⊙ No ⊙ No ⊙ No	ls this Sampling	g Point	Within a Wetland?	O Yes	<b>⊙</b> No
Remarks:	Does not mee	et all three wet	tland par	ameters; upland					

## DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Loomis Market Applicant/Owner: KOBRA Investigator: Eric Christense	Properties		Date: 09/20/2006 County: Placer State: California
Do Normal Circumstances of Is the site significantly disturn Is the area a potential Problom (If needed, explain on rever	rbed (Atypical Situation lem Area?	● Yes ○ No n)? ○ Yes ● No ○ Yes ● No	Community ID: UPL Transect ID: 7 Plot ID:
VEGETATION			-
Dominant Plant Species  1. Torilis arvensis (30%)  2. Cynosurus echinatus (40%)  3. Bromus diandrus (25%)  4. Quercus wislizenii (80%)  5.  6.  7.  8.  Percent of Dominant Species that are (excluding FAC-).  Remarks: Insufficient hydrophyte	OBL, FACW or FAC	11 12 13 14 15	Stratum Indicator rsil. (3%) HERB UPL
Recorded Data (Describe in Rem Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available  Field Observations:  Depth of Surface Water:  Depth to Free Water in Pit:  Depth to Saturated Soil:		Wetland Hydrology Indicat Primary Indicators: Inundated Saturated in Upp Water Marks Drift Lines Sediment Depos Drainage Pattern Secondary Indicators (: Oxidized Root C Water-Stained L Local Soil Survey FAC-Neutral Tes Other (Explain in	per 12 Inches sits as in Wetlands 2 or more required): hannels in Upper 12 Inches eaves y Data
Remarks: Insufficient hydrolog	y indicators. Other: topo	ographic map.	

	nd Phase): <u>Ar</u>	ndregg coarse sar Ultic Haploxero	ndy loam, 2-9% s olls	Fi	rainage Class: Well Drained lield Observations O Yes	 ⊙ No
Profile De Depth (inches)	scription: Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.	
0-18	A	7.5YR 3/3	N/A	N/A	sandy loam	
-						
□ H □ H □ S □ R □ G	28	Regime	☐ Organ ☐ Listed ☐ Listed ☐ Other	retions Organic Content in Surface I nic Streaking in Sandy Soils d on Local Hydric Soils List d on National Hydric Soils Lis (Explain in Remarks)		
Hydrophyt Wetland H	D DETERI tic Vegetation F lydrology Pres ils Present?	sent?	Yes O No Yes O No Yes O No	ls this Sampling	Point Within a Wetland? O Yes	<b>⊙</b> No
Remarks:	Does not me	et all three wetlan	nd parameters; uplar	nd.		

## DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Loomis Marketp Applicant/Owner: KOBRA P Investigator: Eric Christenser	roperties			County:	09/20/2006 Placer California
Do Normal Circumstances ex Is the site significantly disturb Is the area a potential Proble (If needed, explain on revers	bed (Atypio em Area?		● Yes ○ No )? ○ Yes ● No ○ Yes ● No	Commu Transec Plot ID:	nity ID: Rip Wet t ID: 8 a
VEGETATION					
Dominant Plant Species  1. Xanthium strumarium (25%)  2. Salix sp. (18%)  3. Rubus discolor (13%)  4. Mentha spicata (13%)  5. Quercus lobata (7%)  6	DBL, FACW or	FAC+  FACW*  OBL  FAC*	Associate Plant Species  9. Lolium perenne (109  10. Polypogon monspelie  11. Rorippa palustris (29  12. Quercus wislizenii (5  13	ensis (5%) (6) (7%)	HERB OBL TREE UPL
Recorded Data (Describe in Rema Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available  Field Observations:  Depth of Surface Water:  Depth to Free Water in Pit:  Depth to Saturated Soil:	N/.	A (in.) A (in.)	Wetland Hydrology Indicators:    Inundated   Saturated in Upport   Water Marks   Drift Lines   Sediment Depos   Drainage Pattern Secondary Indicators (2   Oxidized Root Cl   Water-Stained Le Local Soil Survey   FAC-Neutral Test   Other (Explain in	er 12 Inches its s in Wetland 2 or more rec hannels in Upeaves y Data t Remarks)	quired): pper 12 Inches
Remarks: Sufficient hydrology i	ndicators. S	Satisfies FAC	C-neutral test. Other: top	ographic	map.

Profile Des Depth (inches)	cription: Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.	_
0-3	Α	10YR 4/1	5YR 5/8	many/coarse/prom.	sandy clay loam	
4-8	Α	10YR 4/2	2.5YR 3/4	many/coarse/prom.	sandy clay	
☐ His ☐ Su ☐ Ac	stosol stic Epipedor Ilfidic Odor Juic Moisture educing Cond	Regime	☐ Organi ☐ Listed d ☐ Listed	tions rganic Content in Surface Layo c Streaking in Sandy Soils on Local Hydric Soils List on National Hydric Soils List Explain in Remarks)	er in Sandy Soils	

#### WETLAND DETERMINATION

O Yes	O No O No	Is this Sampling Point Within a Wetland? • Yes • No
rameters	; riparian wetlan	nd.
		*
	rameters	rameters; riparian wetlar

## DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Loomis Market Applicant/Owner: KOBRA Investigator: Eric Christens	Date: 09/20/2006 County: Placer State: California				
Do Normal Circumstances of Is the site significantly disturble the area a potential Prob (If needed, explain on rever	Community ID: UPL Transect ID: 8 Plot ID: b				
Dominant Plant Species 1. Torilis arvensis (20%) 2. Cynosurus echinatus (20%) 3. Quercus wislizenii (20%) 4. Rubus discolor (5%) 5. Salix sp. (10%) 6. 7. 8.  Percent of Dominant Species that are (excluding FAC-).  Remarks: Insufficient hydrophy	OBL, FACW or FAC	Associate Plant Species  9. Mentha spicata (1%)  10. Bromus diandrus (15  11. Polypogon monspelie  12. Hordeum murinum (  13. Lolium perenne (10%  14  15  16  40  %  g Salix species is FAC or	%) ensis (1%) 15%) 6)	HERB HERB	
PROLOGY  Recorded Data (Describe in Render Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available  Field Observations:  Depth of Surface Water:  Depth to Free Water in Pit:  Depth to Saturated Soil:		Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Uppo Water Marks Drift Lines Sediment Deposi Drainage Patterns Secondary Indicators (2 Oxidized Root Cl Water-Stained Le Local Soil Survey FAC-Neutral Test Other (Explain in	er 12 Inches its s in Wetlands or more req nannels in Up naves Data	uired):	nes
Remarks: Insufficient hydrolog	y indicators. Other: topo	ographic map.			

#### **SOILS** Map Unit Name (Series and Phase): Xerorthents, Placer Areas Drainage Class: D Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Xerorthents Yes O No Profile Description: Depth (inches) Horizon Matrix Color (Munsell Moist) Mottle Colors Mottle Abundance/ Texture, Concretions, Horizon (Munsell Moist) Size/Contrast Structure, etc. 0 - 4A 10YR 3/2 7.5YR 4/4 comm/fine/prom loamy sand 5-12 10YR 3/2 7.5YR 2.5/3 comm/med/prom sandy clay loam Hydric Soil Indicators: ☐ Histosol □ Concretions □ High Organic Content in Surface Layer in Sandy Soils □ Organic Streaking in Sandy Soils Concretions ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☐ Reducing Conditions ☑ Gleyed or Low-Chroma Colors ☐ Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Explain in Remarks) Remarks: Sufficient hydric soil indicators - low chroma soil with mottles.

#### WETLAND DETERMINATION

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present?	O Yes O Yes O Yes	O No O No O No	ls this Sampling Point Within a Wetland?	O Yes	<b>⊙</b> No
Remarks: Does not meet all three	wetland par	ameters; upland	1.	N	
9					

## WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: 6201 Horseshoe Bar Road		City/County:	Loomis/F	Placer Sampling Date: 11/19/2	013
Applicant/Owner: Tulip Asset LLC					
Investigator(s): Kirk Vail					
Landform (hillslope, terrace, etc.): Terrace					0
				Long: -121.18547 Datum: NAD 8	
Soil Map Unit Name: Xerorthents, placer areas					
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrologysi			Are "	"Normal Circumstances" present? Yes No	
Are Vegetation, Soil, or Hydrology n				eded, explain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map			\$2000 C		etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Wetland is a four foot strip along both bank	0	withi		nd? Yes <u>√</u> No	8.
VEGETATION – Use scientific names of plan	ts.				
	Absolute	Dominant Species 2		Dominance Test worksheet:	
Tree Stratum (Plot size:) 1. n/a		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:1(A	A)
2.				The state of the s	
3.				Total Number of Dominant Species Across All Strata:1(E	в)
4.				Percent of Dominant Species	
	8	= Total Co	ver	That Are OBL, FACW, or FAC:	A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index worksheet:	_
1. <u>n/a</u>				Total % Cover of: Multiply by:	
2				OBL species <u>50</u> x1= <u>5</u>	
3				FACW species 7 x 2 = 14	
5				FAC species 0 x 3 = 0	
0.		= Total Co		FACU species 0 x 4 = 0	
Herb Stratum (Plot size:)	10			UPL species <u>0</u> x 5 = <u>0</u>	
1. Persicaria punctata	10	N	OBL_	Column Totals:57 (A)64	(B)
2. <u>Leersia orycoides</u>			OBL	Prevalence Index = B/A =1.1	
3. Juncus balticus			FACW	Hydrophytic Vegetation Indicators:	
4. Cyperus eragrostis			FACW FACW	✓ Dominance Test is >50%	
5. Verbena bonariensis			(A	✓ Prevalence Index is ≤3.0¹	
6				Morphological Adaptations <sup>1</sup> (Provide supportin	ıg
8.				data in Remarks or on a separate sheet)	
0		= Total Co	ver	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	ß.
Woody Vine Stratum (Plot size:)		- 2008000000		to a second and the state of the second and the s	
1			-	<sup>1</sup> Indicators of hydric soil and wetland hydrology mu be present, unless disturbed or problematic.	ISI
2			·		
		_ = Total Co		Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Cove	r of Biotic C	rust		Present? Yes/ No	
Remarks:					

Profile Des	cription: (Describe to	the donth need	d to document the	Indiantau			Sampling Point: 9a			
Depth	Matrix	the depth need			or contin	n the abser	nce of indicators.)			
(inches)	Color (moist)	% Color	Redox Feature (moist) %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-12	10YR 4/1	90 10YR 4			PL	i de la companya del companya de la companya del companya de la co	70 (0) 100 100 100 100 100 100 100 100 100 1			
<u> </u>		201114	10	IVIVI		Sally Cit	<u></u>			
	VA									
	· · · · · · · · · · · · · · · · · · ·						<del>-</del> ~-,			
						-				
	89 <del></del>			. ——			-			
	00:				//					
					************					
	, o <u> </u>						11			
<sup>1</sup> Type: C=C	concentration, D=Deplet	on, RM=Reduce	Matrix, CS=Covere	d or Coate	ed Sand G	rains. 2	Location: PL=Pore Lining, M=Matrix.			
Hydric Soil	Indicators: (Applicab	le to all LRRs, u	nless otherwise not	ted.)			ors for Problematic Hydric Soils <sup>3</sup> :			
Histoso	N 60		Sandy Redox (S5)			1 ci	m Muck (A9) (LRR C)			
	pipedon (A2)	_ :	Stripped Matrix (S6)			2 cr	m Muck (A10) (LRR B)			
Black Histic (A3) Loamy Mucky Mineral (F1)				Reduced Vertic (F18)						
		oamy Gleyed Matrix	(F2)		Red Parent Material (TF2)					
	d Layers (A5) (LRR C)		Depleted Matrix (F3)			Oth	er (Explain in Remarks)			
	uck (A9) (LRR D)		Redox Dark Surface							
	d Below Dark Surface (/	1.50	Depleted Dark Surface			1000				
	ark Surface (A12)		Redox Depressions (	F8)	2		ors of hydrophytic vegetation and			
	Mucky Mineral (S1)		/ernal Pools (F9)			wetland hydrology must be present,				
	Gleyed Matrix (S4)  Layer (if present):					unles	s disturbed or problematic.			
	Layer (ii present).					1				
0.0000000000000000000000000000000000000							700000 400 400 50			
	ches):					Hydric S	oil Present? Yes No			
Remarks:						- 5				
VDBOLO	CV									
YDROLO										
	drology Indicators:									
Primary India	cators (minimum of one	required; check a	ll that apply)			Sec	condary Indicators (2 or more required)			
- Comment Sent and	Water (A1)	-	Salt Crust (B11)			<u> </u>	Water Marks (B1) (Riverine)			
High Wa	ater Table (A2)		Biotic Crust (B12)			2	Sediment Deposits (B2) (Riverine)			
Saturation	on (A3)		Aquatic Invertebrate	s (B13)		1	Drift Deposits (B3) (Riverine)			
Water M	larks (B1) (Nonriverine)		Hydrogen Sulfide Od			-	Drainage Patterns (B10)			
	nt Deposits (B2) (Nonriv		Oxidized Rhizosphe		Livina Roo	ots (C3)	Dry-Season Water Table (C2)			
		17	Presence of Reduce	7.	0.75	() —				
Drift Dep	oosits (B3) (Nonriverine	9)	rieselice of Reduce	u iron (C4	1)		Crayfish Burrows (C8)			

<ul> <li>Drift Deposits (B3) (Nonriverine)</li> <li>Surface Soil Cracks (B6)</li> <li>Inundation Visible on Aerial Imagery</li> <li>Water-Stained Leaves (B9)</li> </ul>	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) ✓ Other (Explain in Remarks)	
Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)		— Wetland Hydrology Present? Yes ✓ No lections), if available:
Remarks: Adjacent to perennial stream p	provides frequent source of wate	er.

### WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: 6201 Horseshoe Bar Road	(	City/County	: Loomis/F	Placer Sampling Date: <u>11/19/201</u> :
				State: CA Sampling Point: 9b
Investigator(s): Kirk Vail				
Landform (hillslope, terrace, etc.): Terrace				
				Long: -121.18547 Datum: NAD 83
Soil Map Unit Name: Xerorthents, placer areas				
Are climatic / hydrologic conditions on the site typical for th				
Are Vegetation, Soil, or Hydrology				"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology				eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map			270,000,000	
	10			
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes N			e Sampled	
Hydric Soil Present? Yes   Wetland Hydrology Present? Yes   ✓ N		2000000		nd? Yes No/
Remarks:				
This area considered riparian wetland in 20	007. Valle	v oak an	d Himala	ivan blackberry indicator status changed to
FACU. Therefore, dominant vegetation is n	o longer h	nydroph	vtic.	,,,
And Angel (1997) Sent (1997) Angel (1997) Sent (1997)				
VEGETATION – Use scientific names of plan		Deminent	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	Absolute % Cover		Indicator Status	Number of Dominant Species
		Υ		That Are OBL, FACW, or FAC:1 (A)
2. Quercus lobata	10	Y	FACU	Total Number of Dominant
3. Quercus wislizeni		N	UPL	Species Across All Strata:6 (B)
4				Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)	52	= Total Co	over	That Are OBL, FACW, or FAC:16 (A/B)
1. Rubus armenicus	60	Υ	FACU	Prevalence Index worksheet:
2. Phytolacca americana	MAY			Total % Cover of: Multiply by:
3		1 20		OBL species x 1 =
4				FACW species <u>40</u> x 2 = <u>80</u>
5		0.		FAC species 2 x 3 = 6
Harb Stratum (Diet size:	62	= Total Co	over	FACU species 80 x 4 = 320 UPL species 12 x 5 = 60
Herb Stratum (Plot size:)  1. Bromus diandrus	3	Υ	UPL	UPL species $12$
Torilis arvensis			UPL	Column Totals. 134 (A) 400 (B)
3. Toxicodendron diversiloba	5	Y		Prevalence Index = B/A =3.47
4				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6		-		Prevalence Index is ≤3.0¹
7		-		Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	60	_ = Total C	over	
1				¹Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
	-	_ = Total C	over	Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cov	er of Biotic C	rust		Present? Yes No/_
Remarks:		115		

Profile Des	cription: (Describe to	the den	th needed to docu	mont the	indicator	or confir	m the chases	Sampling Point:9b
Depth	Matrix	o tile dep		ox Featur		or connr	m the absenc	e of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 4/1 95 10YR 4/6 5 RM PL sandy class							
<u> </u>	<u> 10111 471</u>	33	101K 4/0		KIVI	PL	Sandy Class	
	· ·		7			×6		
			-	-				• (c)
								<b>*</b> 10 <b>*</b>
			-					
		×.					75 Ki	20.
								-0
	×× <del></del>		35	-		7		26
1Tunos C-C		D11	<del></del>		7			***
Hydric Soil	oncentration, D=Deple Indicators: (Applicate	tion, RM	Reduced Matrix, C	S=Covere	ed or Coate	ed Sand G		ocation: PL=Pore Lining, M=Matrix.
Histosol		ole to all			tea.)			s for Problematic Hydric Soils <sup>3</sup> :
	oipedon (A2)		Sandy Red Stripped M					Muck (A9) (LRR C) Muck (A10) (LRR B)
Black Hi			Loamy Mu					ced Vertic (F18)
	en Sulfide (A4)		Loamy Gle		7.7 - 77			Parent Material (TF2)
	d Layers (A5) (LRR C)		✓ Depleted N	/latrix (F3)	K			(Explain in Remarks)
	ick (A9) (LRR D)	v2 0 0 0	Redox Dar		5 Sec. 19 Sec.			
	d Below Dark Surface (	(A11)	Depleted [				4.11	
Thick Dark Surface (A12) Redox Depressions (F8)						s of hydrophytic vegetation and		
Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4)								d hydrology must be present, disturbed or problematic.
							unicas	disturbed of problematic.
Restrictive l	_ayer (if present):							
	_ayer (if present):							
Туре:							Hydric Soi	il Present? Ves √ No
Type: Depth (inc							Hydric So	il Present? Yes <u>√</u> No
Type: Depth (inc					·		Hydric So	il Present? Yes <u>√</u> No
Type: Depth (ind Remarks:	Ches):						Hydric So	il Present? Yes <u>√</u> No
Type: Depth (ind Remarks:  YDROLOG Wetland Hyd	GY drology Indicators:				·			
Type: Depth (independent of the content of th	GY drology Indicators: eators (minimum of one			ly)				il Present? Yes <u>√</u> No
Type: Depth (ind Remarks:  YDROLO Wetland Hyd Primary Indic Surface	GY drology Indicators: ators (minimum of one) Water (A1)		l; check all that app Salt Crusi	t (B11)			Seco	
Type: Depth (ind Remarks:  YDROLO  Wetland Hyd Primary India Surface \( \) High Wa	GY drology Indicators: eators (minimum of one Water (A1) ter Table (A2)		l; check all that app Salt Crusi Biotic Cru	t (B11) st (B12)			Seco	endary Indicators (2 or more required)
Type: Depth (ind Remarks:  YDROLOG Wetland Hyd Primary Indic Surface of High Wa Saturation	GY drology Indicators: eators (minimum of one Water (A1) ter Table (A2) on (A3)	e required	l; check all that app Salt Crust Biotic Cru Aquatic Ir	t (B11) st (B12) vertebrate			<u>Seco</u> \	endary Indicators (2 or more required) Water Marks (B1) (Riverine)
Type: Depth (ind Remarks:  YDROLOG Wetland Hyd Primary Indic Surface ' High Wa Saturatio Water M:	GY drology Indicators: eators (minimum of one) Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine)	e required	l; check all that app Salt Crust Biotic Cru Aquatic Ir Hydrogen	t (B11) st (B12) overtebrate Sulfide C	dor (C1)		<u>Seco</u>	ondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)
Type: Depth (ind Remarks:  YDROLOG  Wetland Hyd  Primary Indic  Surface V  High Wa  Saturation  Water Manners	GY drology Indicators: eators (minimum of one) Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine) of Deposits (B2) (Nonri	e required e) iverine)	l; check all that app Salt Crus Biotic Cru Aquatic Ir Hydrogen _ Oxidized	t (B11) st (B12) evertebrate Sulfide C Rhizosphe	dor (C1) eres along		Second Se	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Type:	GY drology Indicators: eators (minimum of one) Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine) th Deposits (B2) (Nonriverine) osits (B3) (Nonriverine)	e required e) iverine)	l; check all that app — Salt Crus — Biotic Cru — Aquatic Ir — Hydrogen ✓ Oxidized — Presence	t (B11) st (B12) overtebrate Sulfide C Rhizosphe of Reduc	odor (C1) eres along ed Iron (C4	4)	Second   Sec	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Type:	GY drology Indicators: eators (minimum of one) Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine) th Deposits (B2) (Nonriverine) sosits (B3) (Nonriverine) Soil Cracks (B6)	e required  e)  iverine)	l: check all that app Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized   Presence Recent Iro	t (B11) st (B12) evertebrate Sulfide C Rhizosphe of Reduce	dor (C1) eres along ed Iron (C4 ion in Tilled	4)	Second Se	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8)
Type:	GY  drology Indicators: eators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine to Deposits (B2) (Nonri cosits (B3) (Nonriverine Soil Cracks (B6)	e required  e)  iverine)	: check all that app Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Iro	it (B11) st (B12) evertebrate Sulfide C Rhizosphe of Reduct on Reduct c Surface	dor (C1) eres along ed Iron (C4 ion in Tilled (C7)	4)	Second Se	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
Type: Depth (ind Remarks:  YDROLOG Wetland Hyd Surface G High Wa Saturation Water Man Sedimen Drift Dep Surface G Inundation Water-St	GY  drology Indicators: eators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine at Deposits (B2) (Nonri cosits (B3) (Nonriverine Soil Cracks (B6) on Visible on Aerial Imagained Leaves (B9)	e required  e)  iverine)	l: check all that app Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized   Presence Recent Iro	it (B11) st (B12) evertebrate Sulfide C Rhizosphe of Reduct on Reduct c Surface	dor (C1) eres along ed Iron (C4 ion in Tilled (C7)	4)	Second Se	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8)
Type:	GY  drology Indicators: eators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine to Deposits (B2) (Nonri posits (B3) (Nonriverine Soil Cracks (B6) on Visible on Aerial Imalained Leaves (B9) vations:	e required e) iverine) ie) agery (B7	: check all that app   Salt Crust   Biotic Crust   Aquatic Ir   Hydrogen   Oxidized Is   Presence   Recent Ird   Thin Mucl	it (B11) st (B12) avertebrate Sulfide C Rhizosphe of Reduct on Reduct c Surface plain in Re	edor (C1) eres along ed Iron (C4 ion in Tilleo (C7) emarks)	d Soils (Co	Second Se	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
Type:	GY  drology Indicators: eators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine at Deposits (B2) (Nonri posits (B3) (Nonriverine Soil Cracks (B6) on Visible on Aerial Ima ained Leaves (B9) vations: er Present? Yes	e required  e) iverine) ie) agery (B7	: check all that app	it (B11) st (B12) evertebrate Sulfide C Rhizosphe of Reduct on Reduct of Surface plain in Re	edor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Co	Second Se	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
Type:	GY  drology Indicators: eators (minimum of one) Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine) th Deposits (B2) (Nonriverine) soil Cracks (B6) on Visible on Aerial Image arined Leaves (B9) rations: er Present? Yes Present? Yes	e required iverine) ie) agery (B7	: check all that app   Salt Crust   Biotic Crust   Aquatic Ir   Hydrogen   Oxidized Is   Presence   Recent Ird   Thin Mucl	ist (B11) ist (B12) invertebrate Sulfide Con Reduct on Reduct of Surface plain in Reduct in Reduct con Reduct	dor (C1) eres along ed Iron (C4 ion in Tilled (C7) emarks)	d Soils (Co	Second Se	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)

US Army Corps of Engineers

Remarks:

## WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: 6201 Horseshoe Bar Road		city/County:	Loomis/F	Placer Sampling Date: 11/19/2013
				State: CA Sampling Point: 10
Investigator(s): Kirk Vail				
Landform (hillslope, terrace, etc.): Terrace				
				Long: <u>-121.18668</u> Datum: <u>NAD 83</u>
				NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this				
Are Vegetation, Soil, or Hydrologysi				"Normal Circumstances" present? Yes✓ No
Are Vegetation, Soil, or Hydrology no			i .	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map			42 <b>3</b> 00000	
		1		
Hydrophytic Vegetation Present?  Yes No.		Is the	e Sampled	2
		with	in a Wetlan	nd? Yes No <del>✓</del>
Remarks:				
This area considered riparian wetland in 200	17 Valley	oak and	d Himala	van blackberry indicator status changed to
FACU, therefore dominant vegetation is no				, a J
OWNERS AND THE PROPERTY OF STATE OF A PROPERTY OF THE PROPERTY	223			
VEGETATION – Use scientific names of plant		Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	Absolute % Cover			Number of Dominant Species
1. Salix laevigata	15	<u>Y</u>	FACW	That Are OBL, FACW, or FAC:1 (A)
2. Quercus lobata	30	Y	<u>FACU</u>	Total Number of Dominant
Quercus wislizeni	5	N	UPL	Species Across All Strata:6 (B)
4				Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)	50	= Total Co	ver	That Are OBL, FACW, or FAC:16 (A/B)
1. Rubus armenicus	30	Y	_FACU_	Prevalence Index worksheet:
2. Phytolacca americana		N		Total % Cover of: Multiply by:
3.				OBL species x 1 =
4				FACW species 15 x 2 = 30
5				FAC species 3 x 3 = 9
Herb Stratum (Plot size:)	33	= Total Co	ver	FACU species 60 x 4 = 240  UPL species 17 x 5 = 60
1. Bromus diandrus	2	Υ	UPL	Column Totals: 95 (A) 466 (B)
2. Torilis arvensis	5	Υ	UPL	100
3. Toxicodendron diversiloba	5	Y	UPL	Prevalence Index = B/A = 3.56
4	-		-	Hydrophytic Vegetation Indicators:
5				Dominance Test is >50% Prevalence Index is ≤3.0¹
6				Morphological Adaptations <sup>1</sup> (Provide supporting
7				data in Remarks or on a separate sheet)
8		= Total Co		Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:)		_ rotar oc	,,,,,	
1		v <del> </del>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2				
		_ = Total Co	over	Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cover	r of Biotic C	rust		Present? Yes No/
Remarks:				

<i>r</i> 1	

SOIL								Sampling Point:	10
Profile Des	cription: (Describe	to the dep	th needed to docu	ment the	indicator	or confir	m the absence of	indicators.)	
Depth	Matrix		Red	ox Feature	es		6		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks	
0-12	10YR 4/1	90	10YR 4/4	10	RM	PL	silty		
				_					
					100 m				
<del>(</del>	8. <del>-</del>								
<sup>1</sup> Type: C=C Hydric Soil	oncentration, D=Dep Indicators: (Applic	letion, RM= able to all	Reduced Matrix, C	S=Covere	d or Coate	ed Sand G		ion: PL=Pore Lining, M=Marr Problematic Hydric Soil	
Histosol			Sandy Red		301311 <b>5</b> 4			ck (A9) (LRR C)	50.50
Histic E	pipedon (A2)	15	Stripped M					ck (A10) ( <b>LRR B</b> )	
Black Hi	istic (A3)		Loamy Mu	cky Minera	al (F1)			Vertic (F18)	
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)			ent Material (TF2)	
Stratified	d Layers (A5) (LRR (	<b>C</b> )	✓ Depleted N		8 8			plain in Remarks)	
1 cm Mu	ick (A9) (LRR D)		Redox Dar		(F6)				
Depleted	d Below Dark Surface	e (A11)	Depleted D	ark Surfac	ce (F7)				
Thick Da	ark Surface (A12)		Redox Dep	ressions (	F8)		3Indicators of	hydrophytic vegetation and	Ĺ
Sandy M	Mucky Mineral (S1)		Vernal Poo		*			drology must be present,	DE
Sandy G	Gleyed Matrix (S4)		-				53	urbed or problematic.	
Restrictive I	Layer (if present):							And the second of the second o	
Type: ha	rd layer								
7003 PEDES DALLA - 12-0	ches): 12						Hydric Soil Pr		
Remarks:	onoo): <u>==</u>						Hydric 30ii Pi	esent? Yes 🗸 N	<u> </u>
YDROLO	GY								
	drology Indicators:								
Primary Indic	ators (minimum of o	ne required	; check all that app	ly)			<u>Seconda</u>	ry Indicators (2 or more red	uired)
Surface	Water (A1)		Salt Crust	(B11)			Wate	er Marks (B1) (Riverine)	
High Wa	ter Table (A2)		Biotic Cru	st (B12)			Sedi	ment Deposits (B2) (Riveri	ine)
Saturation	on (A3)		Aquatic In		s (B13)			Deposits (B3) (Riverine)	
Water M	arks (B1) (Nonriveri	ne)	Hydrogen					nage Patterns (B10)	
	nt Deposits (B2) (Nor					Living Ro		Season Water Table (C2)	
	osits (B3) (Nonriver		Presence					rfish Burrows (C8)	
	Soil Cracks (B6)	,	Recent Iro					ration Visible on Aerial Ima	gon, (CO)
	on Visible on Aerial Ir	nageni (R7				ollo (CC			gery (C9)
	tained Leaves (B9)	nagery (b/						low Aquitard (D3)	
1000	5 THE OWNER OF SECTION AND A SECTION AND A SECTION ASSESSMENT OF THE PROPERTY		✓ Other (Ex	piain in Re	пагкз)		FAC-	-Neutral Test (D5)	
ield Observ		200							
Surface Wate			lo Depth (in						
Nater Table	Present? Ye	es N	lo <u>√</u> Depth (in	ches):		_			
Saturation Princludes cap	illary fringe)		lo Depth (in					resent? Yes ✓ N	o
Jescribe Red	corded Data (stream	gauge, mo	nitoring well, aerial	photos, pr	evious ins	pections),	if available:		
Remarks:									
Edge of d	rainage area.								

### WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: 6201 Horseshoe Bar Road	(	City/County	Loomis/I	Placer	Sampling Date:11/19/2013
Applicant/Owner: Tulip Asset LLC		550 550		State: CA	Sampling Point:11a
Investigator(s): Kirk Vail					
Landform (hillslope, terrace, etc.): Terrace					
Subregion (LRR): C					
Soil Map Unit Name: Andregg coase sandy loam, 2 to					
Are climatic / hydrologic conditions on the site typical for t					
Are Vegetation, Soil, or Hydrology					oresent? Yes ✓ No
Are Vegetation, Soil, or Hydrology			4	eded, explain any answe	
SUMMARY OF FINDINGS – Attach site ma			g point l	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes✓	No				
Hydric Soil Present? Yes   ✓			e Sampled	nd? Yes✓	, No
Wetland Hydrology Present? Yes <u>√</u>	No	With	III a vvetiai	103	_ "
Remarks:					
Northwest corner of site.					
VEGETATION – Use scientific names of pla	ints.				
	Absolute	Dominant	Indicator	Dominance Test work	(sheet:
Tree Stratum (Plot size:)	% Cover			Number of Dominant S	
1. Salix laevigata		<u> </u>		That Are OBL, FACW,	or FAC:4 (A)
2. Populus fremontii				Total Number of Domir	270223
3				Species Across All Stra	ata:5 (B)
4		= Total Co	wor	Percent of Dominant S	pecies
Sapling/Shrub Stratum (Plot size:)	45	_	ivei	That Are OBL, FACVV,	or FAC: <u>80</u> (A/B)
1. Rubus armenicus	70	Y	_FACU_	Prevalence Index wor	ksheet:
2. Rosa sp.	3	N	Unk.	Total % Cover of:	
3					x1 =
4					x 2 =
5					x3=
Herb Stratum (Plot size:)	73	= Total Co	over	The state of the s	x 4 = x 5 =
Festuca perennis	5	Υ	FAC	The second secon	(A) (B)
2. Cyperus eragrostis		N	FACW	Column Totals.	(A) (D)
3. Festuca bromoides			FAC	Prevalence Index	c = B/A =
4.				Hydrophytic Vegetati	on Indicators:
5				✓ Dominance Test is	
6				Prevalence Index	
7					aptations <sup>1</sup> (Provide supporting as or on a separate sheet)
8					ophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	8	= Total Co	over		
1					oil and wetland hydrology must
2.				be present, unless dist	urbed or problematic.
-		= Total Co		Hydrophytic	
% Bare Ground in Herb Stratum % Co	ver of Biotic C	rust		Vegetation Present? Yes	es No
Remarks:	VCI OI DIOLIO O	1401		110001111	
Remarks.					

Profile Des	cription: (Describe	to the de	pth needed to docu	ment the	indicator	or confir	m the absence of i	ndicators.)
Depth	Matrix			ox Feature				
(inches)	Color (moist)	%	Color (moist)	%		_Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 3/1	90	10YR 4/6	10	<u>C</u>	PL	silty loam	
Hydric Soil Histoso Histic E Black F Hydrog Stratifie	Concentration, D=Dep Indicators: (Application) I (A1) Epipedon (A2) Histic (A3) en Sulfide (A4) ed Layers (A5) (LRR 0)	able to al	M=Reduced Matrix, Colling I LRRs, unless other Sandy Record Matrix, Colling I Loamy Mu Loamy Gle Depleted Matrix, Colling I Loamy Gle Redox Dan	erwise not dox (S5) latrix (S6) cky Minera eyed Matrix Matrix (F3)	al (F1)	ed Sand G	Indicators for 1 cm Muck 2 cm Muck Reduced \ Red Paren	(A10) (LRR B)
Thick D Sandy I	ed Below Dark Surfac Park Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)	e (A11)	Depleted E Redox Dep Vernal Poo	oressions (			wetland hydr	ydrophytic vegetation and rology must be present, rbed or problematic.
Restrictive Type: <u>h</u> a	Layer (if present): ard layer nches): 12							7854C 5000 504 545
Remarks:	iones). <u>IL</u>						Hydric Soil Pre	sent? Yes No
YDROLC								
	drology Indicators: cators (minimum of o		ed: check all that ann	lv)			Secondar	y Indicators (2 or more required
	Water (A1)	no require	Salt Crus					y <u>Indicators (2 or more required</u> r Marks (B1) ( <b>Riverine</b> )
	ater Table (A2)		Biotic Cru					nent Deposits (B2) (Riverine)
	V		5.5 510	0. (0.12)			Sedin	ion populio (DZ) (MVerille)

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; c	heck all that apply)	Secondary Indicators (2 or more required)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1) (Nonriverine)</li> <li>Sediment Deposits (B2) (Nonriverine)</li> <li>Drift Deposits (B3) (Nonriverine)</li> <li>Surface Soil Cracks (B6)</li> <li>Inundation Visible on Aerial Imagery (B7)</li> <li>Water-Stained Leaves (B9)</li> </ul>	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>✓ Oxidized Rhizospheres along Living Roots (C3)</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled Soils (C6)</li> <li>Thin Muck Surface (C7)</li> <li>✓ Other (Explain in Remarks)</li> </ul>	<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>✓ Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Shallow Aquitard (D3)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Water Table Present? Yes No Saturation Present? Yes No (includes capillary fringe)	✓ Depth (inches):     ✓ The proof of the proo	lydrology Present? Yes✓_ No ilable:

### WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: 6201 Horseshoe Bar Road	City/County: Loomis/Placer Sampling Date: 11/19/2					11/19/2013
Applicant/Owner: Tulip Asset LLC				State:CA	_ Sampling Point: _	11b
Investigator(s): Kirk Vail	S	ection, Townsl	hip, Rang	ge: 510, T11N, R7E Rocklin, Ca	alifornia USGS 7.5-minute o	quadrangle
Landform (hillslope, terrace, etc.): Terrace	L	ocal relief (cor	ncave, co	nvex, none): none	Slop	e (%):0
Subregion (LRR): C	Lat: 38.83	1404		Long: <u>-121.19121</u>	Datur	
Soil Map Unit Name: Xerorthents, placer areas				NWI classifi	cation: Upland	
Are climatic / hydrologic conditions on the site typical fo	r this time of year	? Yes	_ No	(If no, explain in I	Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly di	isturbed?	Are "N	ormal Circumstances"	present? Yes✓	No
Are Vegetation, Soil, or Hydrology	naturally prob	lematic?	(If nee	ded, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach site m			oint lo	cations, transect	s, important fe	atures, etc.
Hydric Soil Present? Yes	No <u>√</u> No <u>√</u>	Is the Sa within a		Area 1? Yes	No✓	
Remarks:						
VEGETATION – Use scientific names of p	44.00		r	D	desh sets	
Tree Stratum (Plot size:) 1.	% Cover	Dominant Ind Species? St	tatus_	Number of Dominant S That Are OBL, FACW	Species	(A)
2				Total Number of Domi	inant	
3				Species Across All St		(B)
4				Percent of Dominant S	Species	00000000
Sapling/Shrub Stratum (Plot size:)		= Total Cover		That Are OBL, FACW	, or FAC:0	(A/B)
1. Rubus armenicus	20	Y	ACU	Prevalence Index wo	orksheet:	
2				Total % Cover of:		
3				OBL species		
4				FACW species		7.7
5		The same of the sa		FAC species		
Herb Stratum (Plot size:)	20:	= Total Cover		FACU species		
1. Trifolium hirtum	20	Υ	UPL	UPL species		330 (B)
2. Centaurea solstitialis		100		Column Totals:	70 (A)	330 (B)
3					ex = B/A =4.	71
4				Hydrophytic Vegetat		
5				Dominance Test		
6				Prevalence Index		
7				Morphological Ad	laptations <sup>1</sup> (Provide ks or on a separate	supporting sheet)
8				Problematic Hydr	생기가 살아가는 아름이 하지만 아이를 하는데 되었다.	
Woody Vine Stratum (Plot size:)	50	= Total Cover				
1				<sup>1</sup> Indicators of hydric s		
2.				be present, unless dis	sturbed or problema	tic.
3	<u></u>	= Total Cover		Hydrophytic Vegetation Present?	/es No	,
% Bare Ground in Herb Stratum % C	JOVEL OF BIOLIC CIT	uət		riosonti i	NO_	
Remarks:						

	cription. (Describ	e to the dep	th needed to docur	nent the indi	cator or confir	m the abse	nce of indicators.)
Depth	Matrix		Redo	x Features		<b>.</b> 9	
(inches)	Color (moist)	%	Color (moist)	<u> % T</u>	ype <sup>1</sup> Loc <sup>2</sup>	Texture	e Remarks
)-12	10YR 4/3	100				silty	
Type: C=C	concentration, D=De	pletion, RM:	=Reduced Matrix, CS	S=Covered or	Coated Sand G	Grains	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
lydric Soil	Indicators: (Appli	cable to all	LRRs, unless other	wise noted.)	osaioa oana o		tors for Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Redo				cm Muck (A9) (LRR C)
_ Histic E	pipedon (A2)		Stripped Ma	253-75774 1360-755			cm Muck (A10) (LRR B)
	istic (A3)			ky Mineral (F1	1)		educed Vertic (F18)
	en Sulfide (A4)			ed Matrix (F2)	)	Re	ed Parent Material (TF2)
	d Layers (A5) (LRR	(C)	Depleted M	[10] [10] 이 기원 전기 (Parties Print) : 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Ot	her (Explain in Remarks)
	uck (A9) (LRR D)	78.441	11	Surface (F6)	) Lux		
	d Below Dark Surfa ark Surface (A12)	ce (A11)		ark Surface (F	7)	3, ,,	• ************************************
	Mucky Mineral (S1)		(i)	essions (F8)			tors of hydrophytic vegetation and
	Gleyed Matrix (S4)		Vernal Pool	s (F9)			and hydrology must be present, ss disturbed or problematic.
	Layer (if present):					unic.	ss disturbed of problematic.
testrictive						1	
Туре:						Undrie	Soil Branant? Von No. /
Туре:	ches):					Hydric	Soil Present? Yes No _✓
Type: Depth (in Remarks:	ches):					Hydric :	Soil Present? Yes No _✓
Type: Depth (in Remarks:	ches):					Hydric :	Soil Present? Yes No _✓
Type: Depth (in Remarks:	ches):	:		A			
Type: Depth (in lemarks:  /DROLO /etland Hydrimary Indications	ches): GY drology Indicators cators (minimum of	:	l; check all that apply	Newsystem 1			econdary Indicators (2 or more required)
Type: Depth (in emarks:  /DROLO /etland Hy- rimary India _ Surface	ches):  GY  drology Indicators cators (minimum of Water (A1)	:	l; check all that apply Salt Crust	(B11)			econdary Indicators (2 or more required) _ Water Marks (B1) (Riverine)
Type: Depth (in emarks:  /DROLO /etland Hy- rimary India _ Surface _ High Wa	ches):	:	l; check all that apply Salt Crust Biotic Crus	(B11) t (B12)	40)		econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)
Type: Depth (in emarks:  /DROLO /etland Hyerimary India Surface High Wa Saturatio	ches):  GY  drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3)	: one required	l; check all that apply Salt Crust Biotic Crus Aquatic Inv	(B11) t (B12) vertebrates (B		<u>S</u> e	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)
Type: Depth (in Temarks:  /DROLO /etland Hy rimary India Surface High Wa Saturatia Water M	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive	: one required	l; check all that apply Salt Crust Biotic Crus Aquatic Inv	(B11) t (B12) rertebrates (B Sulfide Odor (	C1)	<u>S</u> e	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)
Type: Depth (in Temarks:  TOROLO Tetland Hyr rimary India Surface High Wa Saturatia Water M Sedimer	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No	: one required rine) onriverine)	l; check all that apply Salt Crust Biotic Crus Aquatic Inv Hydrogen 3	(B11) t (B12) rertebrates (B Sulfide Odor ( hizospheres a	C1) along Living Ro	<u>Se</u>	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)
Type: Depth (in: Remarks:  TOROLO  Vetland Hydrimary India Surface High Water M Sedimer Drift Dep	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No	: one required rine) onriverine)	l; check all that apply Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence of	(B11) t (B12) vertebrates (B' Sulfide Odor (i hizospheres a of Reduced Iro	C1) along Living Ro on (C4)	<u>Se</u> 	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)
Type: Depth (in: Remarks:  TOROLO  Vetland Hy  Trimary India Surface High Wa Saturatia Water M Sedimer Drift Dep Surface	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) (Nonrive nt Deposits (B2) (Noncive Soil Cracks (B6)	: one required rine) onriverine)	l; check all that apply Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Recent Iroi	(B11) t (B12) rertebrates (Biscolling Color) Sulfide Odor (inhizospheres and Reduced Iron Reduction in	C1) along Living Ro on (C4)	Se	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Torainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
Type: Depth (in emarks:  /DROLO /etland Hydrimary India Surface High Wa Saturatia Water Maccommoder Maccommod	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial	: one required rine) onriverine)	l; check all that apply  Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iron	(B11) t (B12) rertebrates (Bright (B15) Sulfide Odor (Indicate (B15) hizospheres a soft Reduced Iron (Indicate (B15)) Reduction in Surface (C7)	C1) along Living Roon (C4) Tilled Soils (C6)	ots (C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Type: Depth (in Temarks:  TDROLO  Vetland Hyerimary India Surface High Wa Saturatia Water M Sedimer Drift Dep Surface Inundatia Water-S	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9)	: one required rine) onriverine)	l; check all that apply Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Recent Iroi	(B11) t (B12) rertebrates (Bright (B15) Sulfide Odor (Indicate (B15) hizospheres a soft Reduced Iron (Indicate (B15)) Reduction in Surface (C7)	C1) along Living Roon (C4) Tilled Soils (C6)	ots (C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Torainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
Type: Depth (in Temarks:  /DROLO /etland Hyr rimary India _ Surface _ High Wa _ Saturatia _ Water M _ Sedimer _ Drift Dep _ Surface _ Inundatia _ Water-S ield Observire	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations:	: one required rine) onriverine) erine)	l; check all that apply  Salt Crust Biotic Crus Aquatic Inv Hydrogen 3 Oxidized R Presence 0 Recent Iroi Thin Muck ✓ Other (Exp	(B11) t (B12) rertebrates (B' Sulfide Odor (i hizospheres a of Reduced Iro n Reduction in Surface (C7) lain in Remark	C1) along Living Roon (C4) a Tilled Soils (Co	ots (C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Type: Depth (in: Remarks:  YDROLO Vetland Hyverimary India Surface High Water M Sedimer Drift Depth Surface Inundation Water-S ield Observariace Water Water-S	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present?	: one required rine) onriverine) erine) Imagery (B7	I; check all that apply Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence C Recent Irol Thin Muck Other (Exp	(B11) t (B12) rertebrates (B Sulfide Odor (i hizospheres a of Reduced Iro n Reduction in Surface (C7) lain in Remark	C1) along Living Roon (C4) a Tilled Soils (Coks)	ots (C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Type: Depth (in: Remarks: YDROLO Vetland Hydrimary India Surface High Water M Sedimer Drift Dep Surface Inundating Water-Sield Observarface Water Table that uration Princludes cap	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	: one required rine) onriverine) erine) Imagery (B7 /es	I; check all that apply Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence C Recent Irol Thin Muck ✓ Other (Exp	(B11) t (B12) rertebrates (B Sulfide Odor (r hizospheres a of Reduced Iro n Reduction in Surface (C7) lain in Remark thes):	C1) along Living Roon (C4) n Tilled Soils (Coks)  Wet	ots (C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Type: Depth (in: Remarks: YDROLO Vetland Hydrimary India Surface High Water M Sedimer Drift Dep Surface Inundating Water-Sield Observarface Water Table that uration Princludes cap	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	: one required rine) onriverine) erine) Imagery (B7 /es	l; check all that apply  Salt Crust Biotic Crust Aquatic Inv Hydrogen 3 Oxidized R Presence 0 Recent Iroi Thin Muck ✓ Other (Exp	(B11) t (B12) rertebrates (B Sulfide Odor (r hizospheres a of Reduced Iro n Reduction in Surface (C7) lain in Remark thes):	C1) along Living Roon (C4) n Tilled Soils (Coks)  Wet	ots (C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Type: Depth (in: Remarks:  YDROLO Vetland Hydrimary India Surface High Water M Sedimer Drift Dep Surface Inundation Water-S ield Observation Procludes cap	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrive nt Deposits (B2) (No cosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? resent?	: one required rine) onriverine) erine) Imagery (B7 /es	I; check all that apply Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence C Recent Irol Thin Muck ✓ Other (Exp	(B11) t (B12) rertebrates (B Sulfide Odor (r hizospheres a of Reduced Iro n Reduction in Surface (C7) lain in Remark thes):	C1) along Living Roon (C4) n Tilled Soils (Coks)  Wet	ots (C3)	econdary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)

### WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: 6201 Horseshoe Bar Road		City/County: Loomis/	Placer	Sampling Date:11/19/	2013
Applicant/Owner: Tulip Asset LLC			State:CA	Sampling Point:12a	a
Investigator(s): Kirk Vail		Section, Township, Ra	nge: S10, T11N, R7E Rocklin, Ca	lifornia USGS 7.5-minute quadrangle	
Landform (hillslope, terrace, etc.): Terrace					
Subregion (LRR): C					
Soil Map Unit Name: Andregg coarse sandy					
Are climatic / hydrologic conditions on the site t					
Are Vegetation, Soil, or Hydrold				present? Yes ✓ No	
Are Vegetation, Soil, or Hydrold			eeded, explain any answe		
SUMMARY OF FINDINGS - Attach			ocations, transects	s, important features,	, etc.
Hydrophytic Vegetation Present? Yes	No	Is the Complete	I Avon		
	No	Is the Sampled within a Wetlan		No <u></u>	
Wetland Hydrology Present? Yes	No	Within a Wotlan			
Remarks:					
Graded strips of vegetation for fir					
VEGETATION – Use scientific name		Dominant Indicator	Dominance Test work	ksheet:	
Tree Stratum (Plot size:) 1.	% Cover	Species? Status	Number of Dominant S		(A)
2.			Total Number of Domin	nant	
3			Species Across All Stra		(B)
4			Percent of Dominant S	Species	
Continue/Observe Ottookuma /Diet sings		= Total Cover	That Are OBL, FACW,	or FAC:0	(A/B)
Sapling/Shrub Stratum (Plot size:1			Prevalence Index wo	rksheet:	
2.				Multiply by:	_
3.				x 1 =	
4.			FACW species	x 2 =	<b>-</b> 0
5			FAC species	x 3 =	<b>.</b> e
		= Total Cover	FACU species	x 4 =	-
Herb Stratum (Plot size:)	20	V 1101	I MARK DAKE HARROCKS TRATE	x 5 =	
1. Bromus diandrus		Y UPL Y FACU	Column Totals:	(A)	_ (B)
2. Bromus hordeaceus		N UPL	Prevalence Inde	x = B/A =	2
			Hydrophytic Vegetat		
4 5.			Dominance Test i	s >50%	
6.			✓ Prevalence Index		
7.			Morphological Ad	aptations1 (Provide supporti	ing
8.				ks or on a separate sheet) ophytic Vegetation¹ (Explain	n)
		= Total Cover	Problematic Hydro	opnytic vegetation (Explain	ij
Woody Vine Stratum (Plot size:	)		1 Indicators of bydric se	oil and wetland hydrology m	nuet
1			be present, unless dis		luot
2		= Total Cover	Hydrophytic Vegetation	20	
% Bare Ground in Herb Stratum	_ % Cover of Biotic C	rust	Present? Y	es No	
Remarks:					
1					

Profile Des	cription: (Describe	to the death n	noded to decur	mont the indicator	or confir	m the cheenes of	Sampling Point:1
Depth	Matrix	to the depth in			or confin	n the absence of	indicators.)
(inches)	Color (moist)	% (		x Features % Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 4/4						Remarks
7 12	101114/4					silty	
ype: C=C	Concentration, D=Dep	oletion, RM=Red	luced Matrix, CS	S=Covered or Coate	ed Sand G		on: PL=Pore Lining, M=Matri r Problematic Hydric Soils <sup>3</sup> :
_ Histoso			Sandy Redo				k (A9) (LRR C)
_ Histic E	pipedon (A2)	9,	Stripped Ma				k (A10) (LRR B)
_ Black H	istic (A3)		Loamy Muc	ky Mineral (F1)		Reduced	
_ Hydroge	en Sulfide (A4)		Loamy Gley	red Matrix (F2)			nt Material (TF2)
_ Stratifie	d Layers (A5) (LRR (	C) _	Depleted Ma	atrix (F3)		Other (Ex	plain in Remarks)
_ 1 cm M	uck (A9) (LRR D)		Redox Dark	Surface (F6)			
	d Below Dark Surfac	e (A11)	Depleted Da	ark Surface (F7)			
	ark Surface (A12)		Redox Depr	essions (F8)		3Indicators of h	hydrophytic vegetation and
	Mucky Mineral (S1)	4	Vernal Pool	s (F9)		wetland hyd	Irology must be present,
	Gleyed Matrix (S4)			C9 98		unless distu	irbed or problematic.
estrictive	Layer (if present):						1997
Type:							
Depth (in	ches):					Hydric Soil Pre	esent? Yes No _
emarks:							
DROLO	GY						
etland Hy	drology Indicators:						
imary India	cators (minimum of o	ne required; che	eck all that apply	()		Secondar	ry Indicators (2 or more requir
	Water (A1)		Salt Crust	West reported			er Marks (B1) (Riverine)
	ater Table (A2)		Biotic Crus				ment Deposits (B2) (Riverine)
_ Saturation				rertebrates (B13)			Deposits (B3) (Riverine)
	larks (B1) ( <b>Nonrive</b> ri	ine)		Sulfide Odor (C1)			
v valci iv	mino (DI) (MOIIIIAGLI	110)	riyurogen s	Juniue Odor (C1)		Drain	nage Patterns (B10)

#### \_\_\_ Oxidized Rhizospheres along Living Roots (C3) \_\_\_ Dry-Season Water Table (C2) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) \_\_ Crayfish Burrows (C8) Surface Soil Cracks (B6) \_\_ Recent Iron Reduction in Tilled Soils (C6) \_\_ Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) \_\_ Shallow Aquitard (D3) \_\_ Thin Muck Surface (C7) \_\_ Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Yes \_\_\_\_ No \_ ✓ Depth (inches): \_ Surface Water Present?

(includes capillary fringe)

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Yes \_\_\_\_ No \_ ✓ Depth (inches): \_\_\_

Yes \_\_\_\_ No \_ ✓ Depth (inches): \_

Remarks:

Water Table Present?

Saturation Present?

Wetland Hydrology Present? Yes \_\_\_

### WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: 6201 Horseshoe Bar Road	City/C	ounty: Loomis/I	Placer	Sampling Date:11/19/2013
				Sampling Point:12b
Investigator(s): Kirk Vail				
Landform (hillslope, terrace, etc.): Terrace				
Subregion (LRR): C				
Soil Map Unit Name: Andregg coarse sandy loam, 2 t				
Are climatic / hydrologic conditions on the site typical for the				
Are Vegetation, Soil, or Hydrology				present? Yes No
Are Vegetation, Soil, or Hydrology			eded, explain any answe	
SUMMARY OF FINDINGS – Attach site map			37 ANO ES 30	
Hydrophytic Vegetation Present? Yes✓	No			
Hydrophytic Vegetation Present? Yes   Hydric Soil Present? Yes   ✓ Yes		Is the Sampled		/ N-
Wetland Hydrology Present? Yes   ✓		within a Wetlar	nd? Yes <u>v</u>	No
Remarks:				
Southwestern corner.				
South Western Connect				
VEGETATION – Use scientific names of pla	nte			
VEGETATION – Ose scientific flames of pla		ninant Indicator	Dominance Test wor	ksheet:
Tree Stratum (Plot size:)	% Cover Spe	cies? Status	Number of Dominant S	Species
1. Populus fremontii	33	Y FACW	That Are OBL, FACW,	
2. Quercus lobata			Total Number of Domi	nant
3. Quercus wislizeni	5	N UPL	Species Across All Str	
4			Percent of Dominant S	Species
Continue (Clear to Chapture (Plot size)	48 = To	otal Cover	That Are OBL, FACW,	or FAC:50 (A/B)
Sapling/Shrub Stratum (Plot size:)  1. Rubus armenicus	30	V FACII	Prevalence Index wo	rksheet:
Salix lasiolepis			Total % Cover of:	
3				x 1 =
4.			FACW species 103	x 2 =206
5				x3=
	100 = To	otal Cover		x 4 = <u>160</u>
Herb Stratum (Plot size:)			UPL species 5	x 5 = <u>25</u>
1			Column Totals:1	<u>48</u> (A) <u>391</u> (B)
2			Prevalence Inde	x = B/A =2.64
3			Hydrophytic Vegetat	
4			Dominance Test i	
5			✓ Prevalence Index	
6			Morphological Ad	aptations <sup>1</sup> (Provide supporting
7 8.				ks or on a separate sheet)
0	= To	otal Cover	Problematic Hydro	ophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)	1			
1			Indicators of hydric so	oil and wetland hydrology must turbed or problematic.
2				
_	= To	otal Cover	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Co	ver of Biotic Crust		Present? Y	es No
Remarks:				

~	-	
9	( 1	

Sampling	Point:	12b
Sampling	Politi.	TZU

Profile Description: (Describe to the of Depth Matrix	Red	ox Feature	es			
(inches) Color (moist) %	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
<u>0-12</u> <u>10YR 3/2</u> <u>90</u>	10YR 3/4	10	_ <u>C</u>	_PL	silty	
						5
		7/17			-	
	_		. — —			
	<del>-(3)</del>					
<sup>1</sup> Type: C=Concentration, D=Depletion, R	M=Reduced Matrix C	S=Covere	d or Coate	d Sand G	rains <sup>2</sup> l postio	n: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to	all LRRs. unless other	erwise not	ed.)	u Sanu G		Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Red		,			(A9) (LRR C)
Histic Epipedon (A2)	Stripped M					(A10) (LRR B)
Black Histic (A3)	Loamy Mu	1000	al (F1)		Reduced V	맞면 있는 하면 맛있다면 그러워 그렇게 하다.
Hydrogen Sulfide (A4)	Loamy Gle					t Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted N	Matrix (F3)				lain in Remarks)
1 cm Muck (A9) (LRR D)	✓ Redox Dar					
Depleted Below Dark Surface (A11)	Depleted D		A 60		3.	
Thick Dark Surface (A12)	Redox Dep		F8)			drophytic vegetation and
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Vernal Poo	ois (F9)				ology must be present,
Restrictive Layer (if present):					uniess disturi	bed or problematic.
Type:					1	
Denth (inches):					Undela Call Dea	
Depth (inches):Remarks:					Hydric Soil Pres	sent? Yes No
	_				Hydric Soil Pres	sent? Yes <u>√</u> No
Remarks:					Hydric Soil Pres	sent? Yes <u>√</u> No
Remarks:					Hydric Soil Pres	sent? Yes <u>√</u> No
Remarks:  IYDROLOGY  Wetland Hydrology Indicators:	red: check all that ann	lv)				
Remarks:  IYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi	contraction of Marie	1 Salasanaray			Secondary	Indicators (2 or more required)
Remarks:  IYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi  Surface Water (A1)	Salt Crust	t (B11)			Secondary  Water	r Indicators (2 or more required) Marks (B1) (Riverine)
Remarks:  IYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi  Surface Water (A1)  High Water Table (A2)	Salt Crust	t (B11) st (B12)	ue (R13)		Secondary — Water — Sedim	Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine)
Remarks:  IYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Salt Crust Biotic Cru Aquatic In	t (B11) st (B12) overtebrate			Secondary Water Sedim Drift D	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine)
Remarks:  IYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)	Salt Crust Biotic Cru Aquatic Ir Hydrogen	t (B11) est (B12) evertebrate Sulfide Od	dor (C1)	iving Ros	Secondary  Water Sedim Drift D	Marks (B1) (Riverine) lent Deposits (B2) (Riverine) leposits (B3) (Riverine) leposits (B3) (Riverine)
Remarks:  IYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine	Salt Crusi Biotic Cru Aquatic Ir Hydrogen  Ø Oxidized	t (B11) st (B12) nvertebrate Sulfide Oo Rhizosphe	dor (C1) res along l		Secondary  Water Sedim Drift D  Draina	Marks (B1) (Riverine) lent Deposits (B2) (Riverine) leposits (B3) (Riverine) leposits (B4) (Riverine) leposits (B5) (Riverine) leposits (B6) (Riverine)
Remarks:  IYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen  d) ✓ Oxidized I Presence	t (B11) st (B12) nvertebrate Sulfide Oc Rhizosphe of Reduce	dor (C1) res along l ed Iron (C4	)	Secondary  Water Sedim Drift D  Draina ots (C3) Crayfis	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) eposits (B10) eason Water Table (C2) sh Burrows (C8)
Remarks:  IYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)	Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Iro	t (B11) st (B12) nvertebrate Sulfide Oo Rhizosphe of Reduce	dor (C1) res along led Iron (C4 on in Tilled	)	Secondary  Water Sedim Drift D Dry-Se Crayfis Solution	r Indicators (2 or more required)  Marks (B1) (Riverine)  ment Deposits (B2) (Riverine)  meposits (B3) (Riverine)  meposits (B10)  meason Water Table (C2)  meason Water Table (C2)  meason Water Table (C2)  meason Water Table (C2)
Remarks:  IYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Iro (B7) Salt Crusi	t (B11) st (B12) nvertebrate Sulfide Oc Rhizosphe of Reduce on Reducti k Surface (	dor (C1) res along led Iron (C4 on in Tilled	)	Secondary  Water Sedim Drift D Draina Ots (C3) Dry-Se Crayfie Solution Shallo	Marks (B1) (Riverine) lent Deposits (B2) (Riverine) leposits (B3) (Riverine) leposits (B3) (Riverine) leposits (B10) leason Water Table (C2) lesh Burrows (C8) lition Visible on Aerial Imagery (C9) w Aquitard (D3)
Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery  Water-Stained Leaves (B9)	Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Iro	t (B11) st (B12) nvertebrate Sulfide Oc Rhizosphe of Reduce on Reducti k Surface (	dor (C1) res along led Iron (C4 on in Tilled	)	Secondary  Water Sedim Drift D Draina Ots (C3) Dry-Se Crayfie Solution Shallo	r Indicators (2 or more required)  Marks (B1) (Riverine)  ment Deposits (B2) (Riverine)  meposits (B3) (Riverine)  meposits (B10)  meason Water Table (C2)  meason Water Table (C2)  meason Water Table (C2)  meason Water Table (C2)
Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery  Water-Stained Leaves (B9)  Field Observations:	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized I Presence Recent Irc (B7) Thin Mucl	t (B11) st (B12) evertebrate Sulfide Oc Rhizosphe of Reduce on Reduction k Surface ( plain in Re	dor (C1) res along led Iron (C4 on in Tilled (C7) emarks)	)	Secondary  Water Sedim Drift D Draina Ots (C3) Dry-Se Crayfie Solution Shallo	Marks (B1) (Riverine) lent Deposits (B2) (Riverine) leposits (B3) (Riverine) leposits (B3) (Riverine) leposits (B10) leason Water Table (C2) lesh Burrows (C8) lition Visible on Aerial Imagery (C9) w Aquitard (D3)
Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes	Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I Presence Recent Ir (B7) Thin Mucl Other (Ex	t (B11) st (B12) evertebrate sulfide Oc Rhizosphe of Reduce on Reduction k Surface ( plain in Re	dor (C1) res along l ed Iron (C4 on in Tilled (C7) emarks)	)   Soils (C6	Secondary  Water Sedim Drift D Draina Ots (C3) Dry-Se Crayfie Solution Shallo	Marks (B1) (Riverine) lent Deposits (B2) (Riverine) leposits (B3) (Riverine) leposits (B3) (Riverine) leposits (B10) leason Water Table (C2) lesh Burrows (C8) lition Visible on Aerial Imagery (C9) w Aquitard (D3)
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes  Water Table Present? Yes	Salt Crust Biotic Cru Aquatic Ir Hydrogen Cru Presence Recent Iro (B7) Thin Muct Other (Ex	t (B11) st (B12) evertebrate sulfide Oc Rhizosphe of Reduce on Reductic x Surface ( plain in Re enches):	dor (C1) res along l ed Iron (C4 on in Tilled (C7) emarks)	)   Soils (C6	Secondary  Water Sedim Drift D Draina Ots (C3) Crayfi Solution FAC-N	r Indicators (2 or more required)  Marks (B1) (Riverine)  ment Deposits (B2) (Riverine)  meposits (B3) (Riverine)  meposits (B10)  meason Water Table (C2)  meason Water Table (C2)  meason Water Table (C2)  meason Water Table (C3)  meason Water Table (C5)
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes [Includes capillary fringe]	Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I Presence Recent Ir Other (Ex No V Depth (in No V Depth (in	t (B11) ast (B12) avertebrate a Sulfide Oc Rhizosphe of Reduce on Reduction k Surface ( plain in Re aches): aches): aches):	dor (C1) res along l ed Iron (C4 on in Tilled (C7) emarks)	)   Soils (C6	Secondary  Water Sedim Drift D Drift D Crayfis Crayfis Shallo FAC-N	Marks (B1) (Riverine) lent Deposits (B2) (Riverine) leposits (B3) (Riverine) leposits (B3) (Riverine) leposits (B10) leason Water Table (C2) lesh Burrows (C8) lition Visible on Aerial Imagery (C9) w Aquitard (D3)
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes [includes capillary fringe]	Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I Presence Recent Ir Other (Ex No V Depth (in No V Depth (in	t (B11) ast (B12) avertebrate a Sulfide Oc Rhizosphe of Reduce on Reduction k Surface ( plain in Re aches): aches): aches):	dor (C1) res along l ed Iron (C4 on in Tilled (C7) emarks)	)   Soils (C6	Secondary  Water Sedim Drift D Drift D Crayfis Crayfis Shallo FAC-N	r Indicators (2 or more required)  Marks (B1) (Riverine)  ment Deposits (B2) (Riverine)  meposits (B3) (Riverine)  meposits (B10)  meason Water Table (C2)  meason Water Table (C2)  meason Water Table (C2)  meason Water Table (C3)  meason Water Table (C5)
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes [Includes capillary fringe]	Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I Presence Recent Ir Other (Ex No V Depth (in No V Depth (in	t (B11) ast (B12) avertebrate a Sulfide Oc Rhizosphe of Reduce on Reduction k Surface ( plain in Re aches): aches): aches):	dor (C1) res along l ed Iron (C4 on in Tilled (C7) emarks)	)   Soils (C6	Secondary  Water Sedim Drift D Drift D Crayfis Crayfis Shallo FAC-N	r Indicators (2 or more required)  Marks (B1) (Riverine)  ment Deposits (B2) (Riverine)  meposits (B3) (Riverine)  meposits (B10)  meason Water Table (C2)  meason Water Table (C2)  meason Water Table (C2)  meason Water Table (C3)  meason Water Table (C5)
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  [includes capillary fringe)  Describe Recorded Data (stream gauge, 1)	Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I Presence Recent Ir Other (Ex No V Depth (in No V Depth (in	t (B11) ast (B12) avertebrate a Sulfide Oc Rhizosphe of Reduce on Reduction k Surface ( plain in Re aches): aches): aches):	dor (C1) res along l ed Iron (C4 on in Tilled (C7) emarks)	)   Soils (C6	Secondary  Water Sedim Drift D Drift D Crayfis Crayfis Shallo FAC-N	r Indicators (2 or more required)  Marks (B1) (Riverine)  ment Deposits (B2) (Riverine)  meposits (B3) (Riverine)  meposits (B10)  meason Water Table (C2)  meason Water Table (C2)  meason Water Table (C2)  meason Water Table (C3)  meason Water Table (C5)
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes	Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I Presence Recent Ir Other (Ex No V Depth (in No V Depth (in	t (B11) ast (B12) avertebrate a Sulfide Oc Rhizosphe of Reduce on Reduction k Surface ( plain in Re aches): aches): aches):	dor (C1) res along l ed Iron (C4 on in Tilled (C7) emarks)	)   Soils (C6	Secondary  Water Sedim Drift D Drift D Crayfis Crayfis Shallo FAC-N	r Indicators (2 or more required)  Marks (B1) (Riverine)  ment Deposits (B2) (Riverine)  meposits (B3) (Riverine)  meposits (B10)  meason Water Table (C2)  meason Water Table (C2)  meason Water Table (C2)  meason Water Table (C3)  meason Water Table (C5)
Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gauge, 1)	Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I Presence Recent Ir Other (Ex No V Depth (in No V Depth (in	t (B11) ast (B12) avertebrate a Sulfide Oc Rhizosphe of Reduce on Reduction k Surface ( plain in Re aches): aches): aches):	dor (C1) res along l ed Iron (C4 on in Tilled (C7) emarks)	)   Soils (C6	Secondary  Water Sedim Drift D Drift D Crayfis Crayfis Shallo FAC-N	r Indicators (2 or more required) Marks (B1) (Riverine) nent Deposits (B2) (Riverine) neposits (B3) (Riverine) neposits (B10) neposits (B10) neason Water Table (C2) neposits (C8) neposits (C9) nepos
Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gauge, 1)	Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized I Presence Recent Ir Other (Ex No V Depth (in No V Depth (in	t (B11) ast (B12) avertebrate a Sulfide Oc Rhizosphe of Reduce on Reduction k Surface ( plain in Re aches): aches): aches):	dor (C1) res along l ed Iron (C4 on in Tilled (C7) emarks)	)   Soils (C6	Secondary  Water Sedim Drift D Drift D Crayfis Crayfis Shallo FAC-N	r Indicators (2 or more required)  Marks (B1) (Riverine)  ment Deposits (B2) (Riverine)  meposits (B3) (Riverine)  meposits (B10)  meason Water Table (C2)  meason Water Table (C2)  meason Water Table (C2)  meason Water Table (C3)  meason Water Table (C5)

# **Appendix C** — **Preliminary Jurisdictional Determination Form**

### PRELIMINARY JURISDICTIONAL DETERMINATION FORM

## **BACKGROUND INFORMATION**

A. DE	REPORT COMPLETION DATE TERMINATION (JD): March 27, 2014	FOR PREL	IMINARY JURISDI	CTIONAL
,	NAME AND ADDRESS OF PER Foothill Associates 590 Menlo Drive, Suite 5 Rocklin, California 95765	RSON REQ	JESTING PRELIMI	NARY JD:
C.	DISTRICT OFFICE, FILE NAMI	E, AND NUN	BER: CENAP-OP-	·R-
•	PROJECT LOCATION(S) AND SE THE ATTACHED TABLE TO DO FERENT SITES) State: California County: Plac		MULTIPLE WATER	
	Center coordinates of site (lat/long	in degree de		
	Lat. 38.82 ° N, Long121.18 Universal Transverse Mercator: Name of nearest waterbody: Secret	m Eastir	ng (x) m	Northing (y)
	Identify (estimate) amount of waters Non-wetland waters: line Cowardin Class: Stream Flow: Wetlands:1.13 acres. Cowardin Class:	s in the revie ar feet:	ew area: width (ft) and/or	acres.
	Name of any water bodies on the si Tidal: Non-Tidal:	ite that have	been identified as	Section 10 waters:
E.	REVIEW PERFORMED FOR SITE	EVALUATI	ON (CHECK ALL THA	T APPLY):
	<ul><li>☐ Office (Desk) Determination.</li><li>☐ Field Determination.</li></ul>	Date: Date(s):		

- 1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.
- 2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable.

This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA: Data reviewed for preliminary JD (check all that apply - checked items should be included in case file and, where checked and requested, appropriately reference sources below):					
<ul> <li>Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:</li> <li>Data sheets prepared/submitted by or on behalf of the applicant/consultant.</li> <li>Office concurs with data sheets/delineation report.</li> <li>Office does not concur with data sheets/delineation report.</li> </ul>					
☐ Data sheets prepared by the Corps:					
Corps navigable waters' study:					
<ul> <li>U.S. Geological Survey Hydrologic Atlas:</li> <li>USGS NHD data.</li> <li>USGS 8 and 12 digit HUC maps.</li> <li>U.S. Geological Survey map(s). Cite scale &amp; quad name:</li> <li>USDA Natural Resources Conservation Service Soil Survey. Citation:</li> </ul>					
☐ National wetlands inventory map(s). Cite name:					
State/Local wetland inventory map(s):					
☐ FEMA/FIRM maps:					
☐ 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929) ☐ Photographs: ☐ Aerial (Name & Date): ☐ Other (Name & Date):					
☐ Previous determination(s). File no. and date of response letter: ☐ Other information (please specify): See Attached.					
IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.					
Merculoth Bitum					
Signature and date of Signature and date of					
Regulatory Project Manager person requesting preliminary JD (REQUIRED) (REQUIRED, unless obtaining the signature is impracticable)					